NDIAN YEAR BOOK 1018.

THE INDIAN EMPIRE, WITH AN EXPLANATION OF THE PRINCIPAL TOPICS OF THE DAY.

SIR STANLEY REED, LL.D.

FIFTH YEAR OF ISSUE

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PREFACE.

In presenting to subscribers the fifth issue of the Indian Year Book the iter ventures to ask their kindly tolerance towards any shortcomings which y be manifest.

This edition has been issued in circumstances of very great difficulty. There been the pressure on all classes in India induced by the war and in addition the vy demands set up by the Indian Defence Force Act. This has not only reacted the Editor and his immediate colleagues but upon all that large band of itributors throughout India on whose co-operation the success of such a volume inly depends.

The Editor desires to express his grateful thanks to those who amid these ense preoccupations have made the time to contribute to the volume, and is nident that subscribers will readily appreciate the difficulties which have caused me gaps in these ranks.

So far as possible in these circumstances a serious attempt has been made to body in the Year Book all the great developments in the third year of the war, ese will be found grouped under three main heads—the Progress of events in sopotamia, including the brilliant recovery from the loss of Kut-el-Amara and capture of Baghdad; the development of political ambitions in India reflected the visit of the Secretary of State for India and his colleagues to consult with Excellency the Viceroy and all public bodies on the steps to be taken after the to give effect to the declaration of the Imperial Government that the goal of itish administration in India is full self-government within the Empire and it substantial steps to this end will be taken at the close of the war; the remarkle financial and economic changes in India, especially in the direction of finance, trency and trade.

The public continue to respond to the invitation to join in the task of editing Indian Year Book by suggesting improvements and developments which have on embodied in this issue so far as possible. The invitation is continued in the affect belief that only by the co-operation of the public can this Year Book maintained as the standard work of reference on the Indian Empire.

THE EDITOR:

CALENDAR FOR 1918.

			Janu	ary.	ε		1			`	. Ju	ly.			
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Phases of the Moon-JANUARY 31 Days.

F _ Inst Quarter 5th, 5h. 19*6m. P.M.

D First Quarter ... 19th, 8h. 7.9m. r.M.

• New Moon 13th, 4h. 5.8m. A.M. O Fu

O Full Moon..... 27th, Sh. 41.2m. A.M.

	1	Day of	Day of			Mean	Time			Moon's		un's clina-
ay of the We	ck.	the Month.	the Year.		uise. M.		nset.		тио 00П.	Age at Noon.	at	ion Mean oon.
				u.	и.	п.	и.	п.	. ж.	D.	1.	s.
fuesday]	1	1	7	12	6	12	0	.м. 42	17.01	23	
Wednesday		2	2	7	12	6	- 13	0	43	18;91	22	58
Thursday	}	3	3	7	13	6	13	0	43	10;01	22	51
Friday		4	4	7	13	G	,26	::0	44	20.01	22	48
iturday.		5	5	7.	13	G	15	0	44	21.01	22	43
inday		6	6	7	13	6	15	0	41	22;01	22	35
onday		7	7	7	14	6	16	0	45	23:91	22	28
nesday	••	8	8	7	11	6	17	0	45	24.01	22	21
\dnesday		0	9	7	14	6	17	0	46	25.01	22	13
areday.		10	10	7	14	6	18	0	46	26.01	22	4
tg ^r /2		11	11	7	14	0	18	0	47	27:91	21	36
Jeday		12	12	7	15	G	10	0	47	28.91	21	46
, ednay		13	13	7	15	6	20	0	47	0.36	21	37
.hun	••	14	14	7	15	6	20	0	48	1.36	21	26
riday.		15	15	7	15	6	21	0	48	2.36	21	16
ednesday		16	16	7	15	6	22	0	48	3.56	21	5
hursday	••	17	17	7	15	G	22	0	49	4-,36	20	51
'riday		18	18	7	15	6	23	0	40	5:36	20	42
aturday		10	10	7	15	G	21	0	49	0.30	20	30
lunday	••	20	20	7	15	G	24	0	50	7:36	20	17
londay	• •	21	21	7	15	6	25	0	50	8.90	20	4
fuesday		22	22	7	15	C	25	0	50	0.30	19	51
nesday	••	23	23	7	15	6	26	0	51	10.30	19	37
day Jond	••	21	24	7	15 .	6	27	0	51	11.36	19	23
Cuesda	••	25	25	7	15	G	27	0	51	12.36	19	9
Wednes	••	26	26	7	15	6	28	0	51	13:36	18	54
Chursda	••	27	27	7	15	6	29	.0	52	14.36	18	20
Friday	••	25	28	7	15	6	20	0	52	15'36	·18	21
day	••	29	29	7	14	6	30	0	62	10.30	18	8
Kednesday		30	30	7	14	6	30	0	52	17:06	17	52
Thursday		31	31	7	14	6	31	l o	52	18:36	17	35

Phases of the Moon-FEBRUARY 28 Days. 3 First Quarter 19th, 7h, 0.4m

Last Quarter 6th, 6h. 13 5m. A.M. O Pool Moon 27th, 9h. 2.8m. r.M. New Moon 13th. 1h. 22.4m. A.M.

	Day of	Day of			Mean	Time.		Moon's	Sun's Declina-		
Day of the Week,	th.	the Year.		ndsc.		aset.	True Noon.	Age at Noon	at Mean Noon.		
			H.	м.	H.	м.	н. ч.	D.	.s.		
ration .	1	32	7	14	6	31	0 52	19:36	17- 19		

Friday 20:35 a Saturday

21.36 O Sunday .. 22:36 Monday . -

£3.36 Б Tuesday ••

в Wednesday .. 25 - 36 ð Thursday •• 26:36 n

25^13 Friday .. ń 27:36 ο. Saturday •• 28:36 Sunday

29.36 ß O Monday .. 0.98 ø Tuesday ..

O 1.03 Wednesday .. 2.98

Thursday •• R 3.98 Friday .. R n 4.08

Esturday •• 5.98 Sunday ٠. 6.98 Monday ••

n ĸ a Б3 7:98 Tuesday •• Б Б3 8.58 Wednesday .. O 8.08 Thursday .. 10.88 Friday ••

G 11.93 Saturday ••

.2.93 .

Sunday . . 13.88

Monday ..

14.93

Tuesday ..

O 15.98 ŧ Wednesday ..

.

Thursday

o 16-93

Phases of the Moon-MARCH 31 Days.

D Firet Quarter 19th, 7h. 0.4m. r.m. t Ouarter 6th, 6h, 13'6m, A.M. O Full Moon 27th, 0h, 2:8m, rat. New Moon 13th, 1h, 22-1m, A.M. Mean Time. Sun'a Moon's Day of Day of Declina-Day of the Week. the the Ago at tion Sunrise. Sunset. True Month. Year. Noon. at Mean Noon. A.M. rat. Noon. 8. ŋ. D. 17. 31. H. M. M. r. M. Friday co đ a 17:03 ٠. 18:08 Saturday G G . . Ĝ Sunday 19:03 a Monday 20:08 Tuesday a G ø O 21:05 Wednesday G n rΩ 22.08 ٠. Thursday ດ 23:98 ٠. Friday G G • • 24.98 Saturday Ø G ø 25.08 . . O Sunday 26.08 . . Monday ß 27:03 . . Tuesday 28.93 Wednesday a 0.47 ٠. Thursday n 1.47 . . Friday 2:47 . . Saturday 3.47 .. Sunday 4.47 .. Monday G 5.47 ٠. Tuesday O 4 G 6.47 • • Wednesday 7:47 ٠. Thursday n 8.47 Friday . 41 9:47 .. n Saturday 10:47 O €8 Sunday ō 11:47 .. Monday 12:47 . . Tuesday n Б1 13:47 . . Wednesday ٠. 14.47 Thursday O ٠. 15.47 Friday ٠. 16:47 Saturday G 17:47 Sunday

 R

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18.47

Phases of the Moon-APRIL 30 Days

C Last Quarter ..., 4th, 7h. 3 1m. P.M.

D First Quarter.....18th, 9h. 37'7m, 1.11.

New Moon11th, 10h. 4.2m. A.N.

O Full Moon 26th, 1h. 35 4m. P.M.

,	-	Day of	Da	y of .			Mea	an T	lm	0.				Moon's	Sun Decli	Ba	-
Day of the Weel	k.	the Month.	l ti	ar.		uris .u.	c.	Sur P.	nei X.		Tr No			Age at Noon.	at Mo	ear	1
			1		н. и.		и.	н.		и.		ж.	и.	D.	• N	;	
Monday		1		91	6	;	33	6	į	8	0	4	8	19.47	4	15	ò
Tuesday		2		92	6	;	83	6	Į	53	0	4	13	20.47	4	3	3
Wednesday		3		03	G	;	32	в	1	53	0	4	12	21.47	5	:	1
Thursday		4		94	6	:	31	0		53	0		12	22.47	. 5	2	1
Friday		5		95	6		30	6		54	0		(2	23.47	5	4	7
Baturday		6		96	0		29	G		54	0		41	24.47	6	1	Û
Sunday		7		97	6	,	28	G		54	0		41	25.47	6	3	2
Monday	••	8		98			23	6		54	0		41	28.47	0	5	5
Tuesday		Q	1	69	1	3	27	0		54	0		41	27.47	7	1	7
Wednesday		10		100	1	3	26	0		53	į o	ı	40	28.47	7	4	0
Thursday		. 11		101		в	25	10	3	55	10)	40	0.11	8		2
Friday		. 1	2	102		6	24	1 .	3	55	1)	40	1.11	8	2	24
Saturday		. 1	3	103		6	24	1	3	56	1)	39	2.11	8	4	16
Sunday		. 1	4	104		в	23		ß	60	1)	39	3.11	0		8
Monday		. 1	5	105		6	22	1	6	56	1	0	89	4.11	9	:	29
Tuesday		. 1	в	100		6	21		6	56	1	0.	39	5.11	9	Į	51
Wednesday	,	. 1	7	107		8	21	1	6	57		0	38	6.11	10	:	12
Thursday		. 1	8	108		6	20		6	57	1	0	88	7-11	10	;	33
Friday) 1	9	109	1	в	19		0	57		0	38	8 11	10	ı	51
Saturday		\ 2	:0	110		в	19		6	57	}	0	28	.0.11	11	. :	15
Sunday		!	21	111		в	18		6	57	i	0	38	10.11	11		30
Monday		••]	22	112	1	в	17		6	58	i	0	37	11.11	11	L	56
Tuesday		:	23	113		\boldsymbol{c}	16	1	0	58		0	87	12-11	12	2	16
Wednesday			24	114		G	10	1	6	58		0	37	13.11	15	2	36
Thursday			25	113	5	6	15		6	59	1	0	37	14.11	1	2	61
Friday			26	110	3	6	14		6	59		0	37	15.11	1:	3	10
Saturday			27	11	7	6	14		G	69	1	0	36	16.11	1:	3	3
Sunday		•••	28	11:	8	G	13	1	7	0)	0	36	17.11	1	3	5
Monday		•••	29	111	0	6	12	:	7	0		0	36	18.11	1	4	1
Tuesday			30	12	0	6	15	2	7	0	, [0	36	19.11	1	4	3

Phases of the Moon-MAY 51 Days.

Int Quarter eth, Th. : 3.2m. s.v.

> Hert Querter..... 19th, th. 41-771, 8.27.

New Moon 10th, Ph. Therm, Ph. | 3 Toll Moon 5 th, th. 2 tm. A.M.

رو خاکیت میروانداد د		Day of	Day C		3	iran I	ก็ตัว".	·	- 1	Mona's		iid'a Mirra
Day of the W	mk	\$21m	Ver.	Frit.	rise.		nert. M.		nun non,	Arr at Noon.	8,	ion Tenn onn.
	;			n.	M.	If.	v.	n	ж.	v.	1.	×,
Weinceing		1	121	6	11	:	1	0.	r. Oa	20.11	14	
Thur lay		2	1==	6	11	1 -	1	0	20	51.11	15	9
Friday	• •	. 3	127	0	10	7	1	0	24	22.11	15	27
Saturday	٠.	4	126	C	10	1 :	**	0	5.5	3.11	15	44
Sunday	••	5	125	c	Đ	7	2	O	55	21-11	16	2
Monday	• •	. 6	126	C	0	7	2	. 0	25	25.11	16	10
Tomley		, 7	127	0	£	7	2	0	25	26:11	16	66
Wednesday		8	128	6.	8	7	3	0	85	27.11	16	50
Thursday		9	123	C	7	7	3	0	35	23.11	17	0
Friday		10	100	0	7	7	3	, 0	35	29-11	17	25
Saturday		11	101	G	G	7	4	0	33	0.70	17	41
Sunday		12	102	C	G	7	4	0	35	1.76	17	56
Monday		10	103	6	5	7	4	0	35	2.76	18	12
Tuerday		14	104	G	5	7	5	0	25	3.76	18	26
Wednesday		15	135	C	5	7	5	10	35	4.70	18	41
Thursday		16	136	C	4	7	G	0	35	5.76	18	55
Friday		17	137	0	4	7	G	0	35	6.76	10	9
Saturday		18	139	G	4	7	G	0	35	7.76	19	23
Sunday		10	139	G	3	7	7	0	33	8.70	19	36
Monday	••	20	140	6	3	7	7	0	35	9.76	19	49
Tuesday		21	141	C	3	7	7	0	35	10.20	20	2
Wednesday		22	142	(a	2	7	8	0	35	11.76	20	14
Thursday		23	143	G	2	7	8	0	35	12.76	20	26
Friday		24	144	0	2	7	9	0	35	13.76	20	38
Saturday	• •	25	145	6	2	7	9	0	83	14.76	20	49
Sunday	••	26	146	6	2	7	9	0	35	15.76	21	0
Monday	•	27	147	6	2	7	10	0	36	16.76	21	9
Tuesday	•	. 28	148	0	1	7	10	0	36	17.76	21	20
Wednesday	•	29	149	6	1	7	11	0	36	18.76	21	20
Thursday	•)	150	. 6	1	7	11	0	36	10.76	21	::9
Triday	•	. 31	151	G	1	7	11	D	36	20.70	21	49

Phases of the Moon—JUNE 30 Days.												
€ Last Qu	n må erm								-	.Gth, Gh. 41	n P	6
• Zen Mo					- 1			-		24th, 4h. 8°		
→ 76# ¥0	п.		311. 32. 11	D. A.31				. 1000		411, 411. 0	Sun	
Domest the Title		Day of	Day of		310	can T	me.			Moon's	Decli	na-
Day of the We		the Month.	Year.	Sum		Bun P.1		Tr No		Age at Noon.	at M	can
			,	п.	ж.	H.	м.	и.	м.	ъ.	°, X	
Saturday		1	152	G	1	7	12	0	36	21.76	21	57
Sunday		2	163	6	. 1	7	12	0	36	55.40	50	5
Monday		3	154	6	1	7	13	0	37	28.70	5:3	13
Tuesday	••	4	15	G	1	7	13	0	37	24.70	C22	21
Wednesday	••	5	150	6	1	7	14	0	37	25.78	55	28
Thursday		6	357	6	1	7	14	0	37	26.78	22	35
Friday	••	7	158	6	1	7	14	0	37	27.76	22	41
Baturday	••	8	159	6	1	7	15	0	37	28.76	20	47
Sunday	• •	9	160	0	1	7	15	0	38	0.08	22	52
Monday	• •	10	161	0	1	7	. 15	0	38	1.38	22	58
Tuesday	•	. 11	162	6	1	7	16	0	38	2.38	23	2
Wednesday	•	. 12	163	6	1	7	.16	0	38	3.08	20	.;7
Thursday		. 13	164	0	1	7	16	0	36	4.38	23	10
Friday		. 14	165	6	1	7	17	0	89	5.38	23	14
Saturday		. 15	166	6	1	7	17	0	39	0.08	23	17 -
Sunday		. 16	167	0	1	7	17	0	39	7:38	23	20
Monday		. 17	168	e	1	7	17	0	30	8.38	23	22
Tuesday		18	169		2	7	18	0	29	9.38	23	24
Wednesdan		100	120	ء ا	. 0	1 -	. 10	1 0	40	10.00	- 00	05

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Phases of the Moon-JULY 31 Days.

Last Quarter, 1st. 2h. 12:9m. r.st.

Sem Moon.	•		in, aurin		1 9	-	-	****	f fen's		
	1	Day of	Day of .			lran T	imn.			Moon's	Sun's Declina
Pay of the Wee	k.	Month.	The Year.	Sunt		Sun F.			our uth	Age at Noon,	tion at Mean Noon.
				11.	27.	π.	Эr,	n,	Ħ.	D.	N.
Honday		1	182	a	5	7	20	or.	42	22:04	27 10
Tureday		2	183	G	5	7	20	ŋ	42	23184	23 6
Wednesday		a	181	6	6	7	21	0	43	24109	23 2
Thursday		4	185	6	0	7	20	0	43	22.08	22 57
Friday o		5	186	6	n	7	20	0	43	26.28	22 52
Saturday		6	187	G	-	7	20	0	43	27:08	22 47
: Sanday	••	7	188	6	7	7	20	0	43	28:38	22 40
Monday		8	189	6	7	7	20	0	43	29:58	22 34
Tuesday	••	9	190	0	8	7	20	0	44	0.02	22 24
Treduceday		10	101	6	8	7	20	0	41	1.02	22 21
1 Thursday	••	11	102	- 6	8	7	20	0	41	2.05	22 13
Friday		12	193	0	Ð	7	20	0	44	3.02	22 6
Saturday		13	394	6	ō	7	20	0	41	4.05	21 57
Sunday		14	105	G	9	7	20	0	41	5.02	21 49
) Monday		15	196	6	D	7	20	0	44	6.82	21 40
Tuesday		10	197	6	10	7	10	0	41	7.95	21 30
Wednesday	• •	17	103	6	10	7	10	0	45	8.02	21 21
Thursday	• •	18	100	6	10	7	19	0	45	'0.02	21 11
Friday	• •	10	200	0	11	7	19	0	45	10.02	21 0
Saturday	•	.∫ න	201	a	11	7	10	0	45	11.02	20 49
Sunday		. 21	202	6	12	7	19	0	45	. 12.05	20 38
Monday	•	. 22	203	6	12	7	18	0	45	13.02	20 28
Tuesday	•	. 23	204	G	12	7	18	0	45	14.05	20 15
Wednesday	. •	. 24	205	6	13	7	18	0	45	15.02	20 3
Thursday	•	. 25	206	6	13	7	17	0	45	10.02	20 50
Filting	, •	26	207	6	14	7	17	0	45	17.95	19 38
r. !. Datarday	•	27	203	6	14	7	17	0	45	18.05	19 24
Sunday		28	200	6	14	7	16	0	45	19.02	19 10
Stonday		20	210	6	15	7	16	0	45	20.92	18 67
4 : I desired		30	211	n	15	7	15	0	45	21.95	18 43
Wednesday		31	. 212	6	15	7	15	0	45	22.95	18 29
											<u></u>

Phases of the Moon-August 31 Days.

New Moon 7th, 1h. 59.6m. a.m.] O Full Moon22nd, 10h. 32.3m

New moon tuly in 39 out whe	O Lan 210011
> First Quarter15th, 4h. 46°4m, A.M.	C Last Quarter29th, 0h.57 1m. A.M.
	· Cap't

		Day of	Day of		31	can I	Ime.		i	Moon's	Sun' Declir	
Day of the We	ek.	the Month.	the Year.		rise. U.	Sur P.	set. M.	Tr		Age at Noon.	at Me Noo	21
			-	п.	ĸ.	н.	м.	н.	н.	D.	N	:
Thursday		1	213	6	16	7	14	P.	45	23.95		1
Friday	••	2	214	6	16	7	14	0	#2	24.93	17	5
Saturday	••	3	215	G	16	7	14	0	45	25.02	17	4
Sunday	••	4	216	6	17	7	13	0	45	56.52	17	2
Monday		5	217	6	17	7	13	0	45	27.05	U 17	1
Tuesday		6	218	G	17	-	13	0	45	25-93	16	5
Wednesday		7	219	6	18	7	12	0	45	0.42	16	5
Thursday	••	8	220	6	18	7	11	0	45	1.45	16	ç
Friday	••	9	221	G	18	7	11	0	45	2.45	1G	
Esturday		10	900	6	13	7	11	0	45	0.42	15	4
Sunday		11	223	6	19	7	-10	0	45	4-45	15	:
Monday	••	12	201	6	19	7	9	0	45	5°45	15	3
Tuesday	••	13	225	· 6	19	7	9	0	45	6.45	14	
Wednesday		14	900	, 6	20	7	s	0	44	7-43	14 .	. :
Thursday	••	15	227	6	20	7	7	0	43	8.42	14	1
Friday		16	223	6	20	7	7	0	43	9-45	13	,
Saturday		17	220	6	20	7	6	. 0	43	10.45	13	4
Sunday		18	230	G	21	7	6	0	43	11.45	13	4
Monday		19	231	1 6	21	7	5	, o	43	12.45	13	
Tuesday		20	232	. 6	21	7	4	0	42	13:45	12	4
Wednerday	• •	21	233	6	02	7	:3	. 0	42	14-45	12	•
Thursday	•.	. 22	234	6	00	7	ulp + d	` o	42	15-45	12	
Triday		. 23	235	0	90	7	2	0	42	16:45	111	4
Saturday		. 24	236	i G	90	7	1	0	41	17:45	11	:
Sunday		. 25	207	6	99	7	0	, 0	41	18-45	11	
Monday ~	-	. 20	235	6	23	6	59	. 0	41	19.45	10	4
Tursday	-	. 27	239	6	23	6	58	Ö	41	20-45	10	:
Wedn's lay		- 2S	240	6	23	6	57	. 0	40	21.45	10	
'Thursday	-	. 5	241	, 6	23	6	56	. 0	40	22-45	י פ	3
Friday	-	. 50	242	1 6	23	G	56	: 0	40	23.45	9	1
Saturday		31	243	ું હ	24	6	55	0	39	24-45	8	5

Phases of the Moon-SEPTEMBER 30 Days.

New Moon 5th, 4h. 13 7m. P.M.

O Full Moon20th, 6h. 30 '0m. P.M.

D First Quarter.....13th, 8h. 32 3m. P.M.

C Last Quarter 27th, 10h. 8.6m. A.M.

		Day of	Day of		M	fean T	lme.			Moon's		un's Una-
Day of the We	ek.	the . Month.	the Year.	Sun A.		Sun	set.		rue on.	Age at Noon,	at M	рn
				H.	и.	B.	n.	B.	м.	D.	.1	ξ.
Sunday	••	1	244	6	24	6	54	0	39	25.45	8	34
Monday	••	2	245	6	24	6	53	0	30	20.45	8	13
'Tuceday	• •	. 3	246	6	24	6	53	0	38	27.45	7	51
Wednesday		4	247	6	24	6	52	Ō	38	28:45	7	20
Thursday C		6	248	6	25	6	61	0	38	20.45	7	7
Friday	••	6	249	6	25	6	50	0	37	0.82	G	45
Saturday	44	7	250	6	25	G	49	0	37	1.83	6	22
Sunday		8	251	6	25	6	48	0	37	2.82	G	0
Monday	• •	0	252	6	25	6	47	0	36	3.82	5	37
Tuesday		10	253	6	26	6	47	0	86	4, 85	5	15
, Wednesday		11	254	6	26	6	46	0	36	5.82	4	52
Thursday		12	255	6	26	6	45	0	35	6.82	4	20
Friday		13	250	6	20	6	44	0	35	7.85	4	G
Saturday		14	257	6	26	6	43	0	34	8.82	3	43
^{3 1} Sunday		15	268	C	26	6	42	0	34	0.82	3	20
Monday		16	250	ū	27	6	41	0	34	10.82	2	57
Tuesday		17	260	G	27	6	40	0	33	11-85	2	34
Wednesday		18	261	6	27	6	39	0	83	12-85	2	11
Thursday		. 10	262	2	27	6	30	0	ลง	13.85	1	47
Friday		. 20	203	6	27	6	38	0	32	11.85	1	21
: Saturday		. 21	261	0	27	6	37	0	32	13.85	1	1
Sunday		. 22	205	G	28	6	36	0	32	18.85	0	#7
Monday		. 23	266	6	23	6	35	0	31	17.85	0	11
Tuesday		. 24	207	6	23	6	34	0	31	18.85	0	9
Wednesday		. 25	268	9	28	6	33	0	31	19.85	0	99
Thursday		. 20	260	6	28	6	33	0	SO	20.82	0	50
l'riday		. 27	270	0	29	0	32	0	30	21.82	1	21
8aturday		28	271	G	20	6	31	0	30	22.85	1	43
Sunday		29	272	6	29	6	30	0	20	23.85	2	6
Monday		30	273	0	29	6	20	0	20	21.82	2	::0
,				1		1		1	···	1		

Phases of the Moon-OCTOBER 31 Days.

C First Qua			1. 35°2m. 10h. 30°0n		- 1	O Full Moon20th, 3h, 4 8m. A.M. D Last Quarter26th, 11h. 5 4m. P.L.							
Day of the V	Veek.	Day of the Month.	Day of the Year	Sun		fean '	set.	Tri	10 0n.	Moon's Age at Noon.	Deck tic at M	ina. on can	
	.]				P.				<u> </u>	1	юп.	
				Ħ.	n.	ni.	n.	Й. Р.		D.	8		
Tucsday	••	1	274	6	30	в	28	0	29 -	25.85	2	53	
Wednesday	••	2	. 275	6	30	6	27	0	28	.26*85	3	16	
Thursday	••	3	276	G	20	6	26	0	28	27.65	3	40	
Friday	••	4	277	6	30	6	26	0	28	28.85	4	3	
Saturday	••	- 5	278	6	30	6	25	0	27	0.17	e 4	26	
Sunday	**	6	279	6	31	6	24	0	27	1.17	4	40	
Monday	••	7	260	6	31	6	23	o	. 27	2.17	5	12	
Tausday	••	8	281	6	31	6	90	0	126	3'17	5	35	
Wednesday		D	282	6	31	6	21	0	26	4.17	5	58	
Thursday	••	10	283	6	31	6	20	0	26	5.17	6	21	
I'riday	••	11	281	6	32	6	10	0	26	6.17	6	44	
Saturday		12	285	6	32	6	18	0	25	7-17	7	O	
Sunday	•	. 13	286	6	32	6	18	0	25	8.17	7	20	
Monday	•	. 14	287	6	33	0	17	. 0	23	9-17	7	52	
Tuesday	•	. 15	288	6	33	6	16	0	ಬ	10.17	В	14	
Wednesday		. 16	289	6	\$3	6	15	0	24	11:17	8	30	
Thursday		. 17	290	6	33	6	15	0	24	12.17	8	58	
Friday	. •	. 18	291	6	34	6	14	0	24	13.17	9	20	
Saturday	•	. 19	292	6	34	6	13	0	24	14:17	0	42	
Sunday		. 20	203	6	34	6	13	0	24	15.17	10	4	
Monday		. 21	294	6	35	6	12	Q	21	16-17	10	26	
Tuesday		. 22	205	6	35	6	11	0	23	17.17	10	47	
Wednesday		. 23	296	6	35	6	11	0	23	18.17	111	7	
Thursday		. 24	297	6	36	6	10	Q	23	19.17	11	29	
Friday		. 25	298	6	36	6	10	0	23	20-17	11	50	
Saturday		. 26	299	6	37	6	9	0	23	21 - 17	12	11	
Sunday		. 27	300	6	37	6	8	0	23	22.17	12	32	
Nonday.		28	. 201	6	37	- 6	8	0	23	23.17	12	52	
Tuesday		29	302	.6	38	6	7	0	23	24.17	13	12	
Wednesday	,	30	303	6	38	6	7	0	23	25.17	13	32	
Thursday		31	301	6	30	6	7	0	22	26.17	13	50	

Phases of the Moon-NOVEMBER 30 Days.

New Moon 4th, 2h. 31 °Cm. A.M.

Saturday

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0 0 0 27

O Full Moon 18th, 1h. 3.0m. P.M.

C Last Quarter 25th, 3h. 55 3m. P.M. D First Quarter 11th, 10h. 16.2m. P.M. Sun's Mean Time. Day of Day of Moon's Declina-Day of the Week. the the Age at Noon. tion Snnact. Truo Suprise. Month. Year. at Mean A.M. P.M. Noon. Noon. п. 36. D. S., Ħ. M. н. 31. P.3f. 0 _ Friday B 27:17 ٠. nn 28:17 Saturday G . . Sunday ß Б 20:17 Monday ß Б 0:42 . . Tuesday r, Ð 1:42 . . Wednesday ō O 2:42 . . Thursday G 3:42 . . Friday 4:42 Saturday Ð 5.42 . . Sunday ß a 6:42 . . Monday - G n 7:42 Tuesday n 8:42 Wednesday Ç o 9:42 . . Thursday 10:42 . Friday 11:42 . . Saturday Ĝ 12:42 . Sunday o 13:42 Monday G Û O 14:42 Tuesday ß 15:42 Wednesday O 16:42 . . Thursday G n 17:42 . . Friday đ 18:42 . . Baturday Ð 19:42 . . Sunday G ß ß n 20:42 . . Monday O 21:42 Tuesday 22:42 ٠. Wednesday ß 23:42 . . Thursday G 24:42 . . Friday ß 25 42 ..

22 31

20.42

		Phases	of the	Mo	on—I	DECE	MBE	R 3	1 Da	ys.	¥	
New Moo	n	3rd, 8	h. 49°2m.	P.M.	i	O F	ull Mo	on	18	8th, Oh. 47'5	m. A.	
🗓 🕽 First Que	arter .	11th,	8h. 1°4m.	м.ж.		(L	ast Qı	artor	2	5th, 0h. 0·6	m, P.31	
,,,		Day of	Day of		:	Mean '	.	Moon's	Sun's Declina			
Day of the W	Day of the Week.		the Month. Year.		Suurise.		Sunset.		ue on.	Age at Noon.	at Mean Noon.	
				н.	м.	н.	я.	H.	M.	D.	s	,
Sunday		1	335	G	36	6	0	P. 0	и. 28	27:42	21	42
Monday		2	336	6	56	6	ı	0	28	28-42	21	52
Tue-day ·	••	3	. 837	6	57	6	1	ō	28	29.42	90	0
Wednesday	••	4	338	6	57	G	1	0	29	0.60	22	9,
Thursday .		5	339	8	58	6	1	0	29	1.00	22	17
Friday	٠	6	340	6	59	6	1	0	30	2.66	99	25
Saturday	••	7	341	6	59	6	1	0	20	3166	90	82
Sunday		8	842	7	0	0	2	0	30	4.60	93	39
Monday	••	9	343	1 7	1	6	2	0	31	5.66	99	45
Tuesday		10	344	7	1	6	2	0	31	0.00	22	ร์1
Wednesday		111	845	7	2	6	3	, 0	32	7.66	22	67

	1		1	H.	м.	H.	я.	H.	M.	D.	Š
Sunday		1	335	G	36	6	0	P. 0	и. 28	27-42	21
Monday		2	336	6	58	6	ı	0	28	28-42	21
Tuesday ·		3	. 837	6	57	6	1	ō	28	29.42	90
Wednesday		4	338	6	57	G	1	0	29	0.60	22
Thursday ·	••	5	339	8	58	6	1	0	29	1.00	22
Friday	١	6	340	8	59	6	1	0	30	2.66	9-9
Saturday	••	7	341	6	59	6	1	0	20	8.60	90
Sunday		8	842	7	0	0	2	0	30	4.60	93
Monday	••	9	343	7	1	6	2	0	31	5.66	22
Tuesday	. • •	10	344	7	1	6	2	0	31	0.00	20
Wednesday	• •	11	845	7	2	6	3	0	32	7.66	22
Thursday	• •	12	340	7	2	6	3	0	32	8.00	27
Friday	••	13	347	7	3	6	3	0	83	0.00	23
Saturday	• •	14	348	1 7	3	6	4	0	33	10.66	23
Sunday	•	15	349	7	4	6	4	1 0	34	11.00	23
Monday	•	16	350	7	5	6	4	0	34	12.00	23
Tuesday .		. 17	251	7	5	6	5	0	35	13.66	23
Wednesday		. 18	352	7	6	6	5	0	35	14.66	23
Thursday	•	. 19	353	7	6	6	6	a	36	15.66	23
Friday		. 20	354	7	7	6	G	σ	36	10.00	23
Saturday		. 21	355	7	7	6	7	0	37	17-66	23
Sunday		99	356	1 7	8	6	7	10	37	18.66	23

		***	- 1		-			~	•		}	-	
	Wednesday	į	4	338	6	57	G	1	0	29	0.60	22	9
	Thursday ·		5	339	8	58	6	1	0	29	1-66	22	17
	Friday	·	6	340	6	59	6	1	0	30	2.66	0-0	25
	Saturday		7	341	6	59	6	1	0	20	a • 66	20	32
	Sunday		8	342	7	0	0	2	0	30	4.60	90	39
	Monday	[9	343	7	1	6	•	0	31	5.66	93	45
	Tuceday		10	344	7	1	6	2	0	31	0.00	22	51
	Wednesday		11	345	7	2	6	3	0	32	7.66	50	67
	Thursday		12	346	7	2	6	3	0	32	8.00	27	2
	Friday		13	347	7	3	6	3	0	83	0.00	23	C
	Saturday	••	14	348	7	3	6	4	0	33	10.66	23	11
	Sunday		15	349	7	4	6	4	1 0	34	11.66	23	14
	Monday		16	350	7	5	6	4	0	34	12.66	23	18
	Tuesday .	٠.	17	351	7	5	6	5	0	35	13.66	23	20
	Wednesday	••	18	352	7	6	6	5	0	35	14.66	23	23
	Thursday	٠.	19	353	7	6	6	6	a	36	15.66	23	24
	Friday		20	354	7	7	G	G	σ	36	10.00	23	20
	Saturday	• •	21	355	7	7	6	7	0	37	17-06	23	27
	Sunday	•	. 99	356	7	8	6	7	0	37	18.66	23	27
	Monday		. 23	357	7	3	6	8	0	28	19.66	23	27
:	Tuesday		. 24	359	7	9	6	8	0	3\$	20.66	23	26
	Wednesday		. 25	259	7	9	6	9	10	39	21.66	23	25
	Thursday		_} 26	300	1 :	10	6	9	0	99	22.66	23	21
	Iriday		. 27	361	1	7 10	6	10	0	40	23-66	23	3
	Saturday		. 29	062	1 :	7 11	10	3 10	0	40	91.66	6-3	10

Sunday ß 25.68 Monday 26.86 Tuesday 27:60

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July.
Januare. 13 13 141 162
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ndla in 1917. The war has dominated everything. Towards he end of the year the collapse of Russla, hrew on the Allies the immense burden of providing from their own resources, in conunction with the United States, compensation or the withdrawal from the fight of the Russian hillions. In this effort India took a splendid art. The report of the Commission appointed o inquire into the shortcomings of the first Expedition to Mesopotamia, which resulted in be Battle of Cicsiphon with most inadequate proces, and the heroic failure of the attempts to lieve the be-leged garrison of Kut-al-Amara, ivealed grave defects in the Indian military ischine. But by the time the report of the ommission was presented there had been a ast improvement in the organisation of the irces in Mesopotamia, and the preparations ere complete which resulted in the capture of paghdad and the infliction of a series of heavy fleats on the Turks. Whilst the War Office is assumed sole control of the operations, the miribution of India to the result was most The appointment of a . peruiting Board atimulated the flow of an precedented number of recruits to the combapit forces and to the various Labour Corps lich were enrolled. The constitution of a unitions Board mobilized the industrial and picultural resources of the country for military trooses and through these agencies India - came the main centre of supply for the mies of Mesopotamia, Egypt and Last Africa. . Financially India has also borne her share the Imperial burden. During the year the aperial Legislative Council unanimously aperial Legislative Council unanimously tepted one hundred million sterling of the aperial War Debt, and provided the taxation · cessary to discharge the interest and sinking hd charges, amounting to six millions a year. a special effort an Indian War Loan was leed which provided approximately forty Illions sterling of cash for the Government to W upon. In comparison with the cost of the ir the figures seem small. But the Indian npire is a poor country, faced by an immense penditure on education, sanitation and The ..pnomic development. contribution. th the charges which it involved, was a conbution from necessities, not from luxuries; p subscriptions to the War Loan aggregated arly ten times the sum borrowed in a single ar in time of peace. Side by side with these immense activities, pre were political developments which gave

ound for great anxiety. When the war oke out there was a political truce, observed both sides. As the war progressed some ments chaired against this truce, and in dras in particular Mrs. Annie Besunt, the ad of the Theosophical Society, entered on a inpaign of active criticism of Government, lich in the opinion of those best qualified to age brought Government into contempt and aded to make all government impossible. for the Governor of Madras, Lord Pentland, it made a speech in which he said the early ilisation of self-government in India was as an integral part of the Empire.

There are few more difficult tasks than to see impossible, the Madras Government decided a correct perspective the progress of events in to restrict the illustries of Mrs. Besant and of her two most active supporters and to confine their residence to the pleasant hill station of Octacamumi. This step was greeted with vehement protests from almost all parts of India, and the holding of public meetings to demand the release of Mrs. Besant. The excitements thus caused were allayed later in the year by the official announcement that the goal of the Imperial Government in India was the attainment of full self-government within the Empleo and that whilet Parliament would be the judge of the time and place of the steps to this end, substantial steps would be faken without undue delay. Mrs. Besant was released from the mild detention imposed on her with her condittors. Later Mr. Edwin Montagu, the Secretary of State for India, arrived in the country at the head of a small mission, to consult with the Government of India luna all representative organisations individuals as to the measures first to be adopted. The Viceroy and Mr. Montagu visited the chief centres in India and received an immense number of deputations, also according interviews to all shades of opinion.

Any attempt to diagnose the forces behind these activities must necessarily be considered blassed by one side or the other. The view put forward here is that whilst the agitation was in part factions, in great measure it sprang from a feeling of anxiety lest after the war the natural growth of the political institutions in India towards self-government might be checked by reactionary, or ultra-conservative instincts. Whilst on the one side the Home Rule Lengue has displayed great activity, and Mrs. Besant was elected President of the Indian National Congress, on the other the naturally conservative forces, the great English community, with their large community,

not to impartial British Government, but to the domination of a Brahminical oligarchy based on a very narrow and untrained electo-

None can forecast the growth of these forces, But the view expressed here is that frank recognition must be made of the fact that the natural destiny of every unit of the British Empire is self-government within the Empire, and that India can be no exception to that rule; that the time is ripe for the rapid extension of that principle in provincial affairs, with the increasing responsibility of Indians for the administration of their own land; and for the liberalisation of the Government of India and its freedom from the meticulous control of the Secretary of State. Any steps in this direction are of necessity leaps in the dark; but if they are wisely taken, with full recognition of the immense diversity of the population and the necessity of rapidly educating and expanding the electorate, these measures can be taken with reasoned confidence in the increasing strength and prosperity of India

The History of India in Outline.

extent. Approximate accuracy in chronology up the P ratio Golff is the climber to the certifice and an outline of dynastic facts are all that et his exactor but is not part of the Libert the student can look for up to the time of of Irdia. Alexander, though the belief et exerction into menths in Ir in and I-th Irdia discussed like by-ways of history will reveal to blim hany to carry on the decendant of the kinds of alluring and mysterious fields for speculation, he had exact to the decendant of the kinds of the line are, for example, to this day cares that in all, distinged the fruits of which has to be believe they sprang originally from the believe the exact discrete the fruits of which has to be believe they sprang originally from the blues of example, and a notified at a triffice with a station of the shores of a highly improbable sea "; and to have the fit has phosiness, I saying warred the great spic points contain it infinitely with. The hadre of the exist against Alexander modern notions of history as a selection. Into on the shores of a mining improvable has "and to have the let his plantages, ready means the great spie points contain of hither state spie points contained and the formation with Jataka stories and stories. But the header of the roll neglect Alexandra much valuable information is to be obtained, and, for the bundle of those unable to not of the Right these and other original source, it has been that the first and for the fact of the roll of the

distilled by a number of writers. The orthodox Hindu begins the political history of India more than 1990 years before Christ, with the war waged on the hanks of the Jumia between the sons of Kuru and the sons of Pandu; but the modern critic profess to omit several of those remote centuries and to take 600 B. C., or then abouts, as his starting point. At that time much of the country was covered with forest, but the Aryan recession and entered India from the Lorth, had established in parts a form of chillination for ing forces, the Aryan is the better known, and of the Aryan kingdoms the first of which there is authentic record is that of Magadha, or Bibat. Bauthanie record is that of Shaphona, or Bibar, on the Ganges. It was in, or near, this power-Ril kingdom that Jainism and Buddhism had their origin, and the fifth King of Magadha, Bimbleara by name, was the friend and patron. Continue Buddhis. The Magadha. Bimbleara by name, was the trans and patton of Gautama Buddha. The King mentioned was a contemporary of Darius, autocrat of Persia (521 to 465 B. C.) who annexed the Indus valley and formed from his conquest an indian satrapy which paid as tribute the contemporary of about one million steribure. Designed of about one million steribure. equivalent of about one million sterling. Detalled history, however, does not become pos-sible until the invasion of Alexander in 326 B.C.

Alexander the Great.

No history of India can be proportionate,) Absolute (Cherall). The Maccionian tarried and the briefest summary must suffer from the just telepholita, it is after Propose to the tarried of and the briefest enumary must suffiction the juil before him, it for the Preus at the Lattice of some defect. Even a wholesale acceptance as the Hydrope, and erroring the Chemb and bistory of mythology, tradition, and folkiers Used. But at the Elder Hydrofe (files) the will not make good, though it makes ples weary the granutioned, and Alexander with turnsque, the many gaps that exist in the early later is turn took and retire to the Preiser history of India; and, though the labours of where a first could sum the river to the example of modern geographers and archeologic lawse tend under a first ready. The more first steep of amazingly fruitful, it cannot be expected that Alexander's reach through Metra and Preise these gaps will ever be filled to any appreciable to Babulen, and of the royar of Neumbor extent. Approximate accuracy in chronology applied when the first are all that of the ready in the content of the tentum.

to whom Palylon had preved on the death ti Altender. This was too formed to an effection to be faced, and a treaty of 1500 February for concluded between the bytten and infine monaths which left the jutter too first processed to be the first processed to be a first processed to the first proces casttal at Patalipettes, the mostern Pates and Blankipon Of Chandragupta's court and administration a very full account is present in the fragments that remain of the hiday who had entered finite from the both, had in the fragments that remain of the money established in farts a form of civilization far compiled by Meastheres, the anti-seader superior to that of the aboriginal assays, and on to Irelia by Selection. His recognition to this day there survive cities, like librares, plan ended in 257 B. C. when it was recognited by those invaders. In like manner credes by his ron Bindmans, who in his turn the Dravidian favorest from an unknown land. the Dravidian invaders from an unknown land, was succeeded by Acola 1209-221 R. C.) who who overran the Decan and the Southern coorded the events of his rize in an increasing and, at a much later period, were thempelves the object on the King, in an increasing and, at a much later period, were thempelves the object of the doubling the king and only the Aryans. Of these two civilies dome of Kallaga (the Northern Circain and the ling forces, the Aryan is the better because and becoming a consert to huddhism, reserved occounts a convert to Buddinum, reserving to the future to ab-tain from conjuget by force of arms. The consequences of the coversion of Assix were amazing. He was not intolerant of other reliktors, and did not endeavour to force his creed on his "children". But he halftend the convertible of the c But he initiated measures for the propagation of his doctrine with the result that "Buddhim which had littletto been a merely local set la the valley of the Ganger, was transformed into one of the greatest pligions of the world-the greatest, probably, if measured by the number, of adherents. This is Aroka's claim to be remembered; this it is which makes his reion an epoch, not only in the history of India, het in that of the world." The worldness of bli callely reveal his That great soldier had crossed the Hindu Kush great missionary, and it is to be hoped that the previous year and had captured Aornos, excavations now being carried on in the missionary of the district on his carried That great coulder and crossed the Hindu Kush in the previous year and had captured Aornos, excavations now being carried on in the rimor on the Upper Indus. In the spring of 226 he crossed the river at Ohind, received the submission of the King of Taxila, and matched mission of the King of Taxila, and matched kingdom fell to pieces. Even during his against Porus who ruled the fertile country refin three had been stens of new forces at work between the rivers Hydaspes (Jhelum) and on the borderland of India, where the independent kingdoms of Bactria and Parthia had carried on a considerable trade with Greece

been formed, and subsequent to it there were Expet and Rome, as well as with the Last, frequent Greek raids into India. The Greeks Their domination ended in the fifth century in Bactria, however, could not withstand the A.D. and a number of new dynastics, of which overwhelming force of the westward migration the Pallavas were the most important, began of the Yuch-chi horde, which, in the first cen- to appear. The Pallavas made way in turn tury A. D., also ousted the Indo-Parthian kings for the Chalukyus, who for two centuries re-from Alghanistan and North-Western India. from Afghanistan and North-Western India.

The first of these Yueh-chi kings to annex a part of India was Kadphises II (A. D. 85—125), one branch uniting with the Cholas. But part of India was Kadphises II (A. D. 85—125), the fortunes of the Southern dynasties are so who had been defeated in a war with China, involved, and in many cases to little known; but crossed the Indus and consolidated his power tastward as far as Benares. His son kianishka (whose date is much disputed) left except those of Vikramaditya (11th century) a name which to Buddhists stands second only and a few of the Inter Ilindu rulers who made to that of Asoka. He greatly extended the a stand against the growing power of Islam; boundaries of his empire in the North, and of the rise of which an account is given below. made Peshawar his capital. Under him the In fact the history of medieval India is singupower of the Kushan clan of the Yuch-chi larly devoid of unity. Northern India was in reached its zenith and did not begin to decay a state of chaos from about 650 to 050 A.D. until the erg of the Second century, concurrently until the erg of the second century, concurrently into unility that which prevailed in Europe of with the rise in middle India of the Andra dy. that time, and materials for the history of nasty which constructed the Amaravati stupa. "One of the most claborate and precious monus of plety ever raised by man."

The Gapta Dynasty.

Early in the fourth century there arose, at Patailputra, the Gupta dynasty which proved of great importance. Its founder was a local fully that the Aryan element was chiefly concelled, his sen Samudragupta, who ruled for some fifty years from A.D. 326, was a king of the greatest distinction. His aim of subduing for the religious and social history of this anarall india was not indeed fulfilled but he was a part of the being a warrior, he was a parton of the greatest event—if a slow process may be called to exact tribute from the kingdoms of the South and even from Ceylon, and, in addition to being a warrior, he was a parton of the glished and is commemorated in an in-cription on the famous iron pillar near Delhi, as well as pure largely resting apon a classification of in the writings of the Chinese pillgrim Fa-blen occupations. But this social change was only who pays a great tribute to the equitable apart of the development of the Hindu religious in the wild head of the process may be called the second of the chinese pillering Fa-blen of the equitable apart of the development of the Hindu religious in the writer of the Hindu religious in the distinction of the new division of the Hindu religious in the distinction of the Alba and the aboration of the Hindu religious and social change was only the would include the second many powerful religious and social history of this anarally the case of the chinese pillering the content of the most of the Hindu religious and social change was only the would include the case of the chinese pillering the content of the Hindu religious and social change was only the content of the Hindu religious and social history of this anarally the case of the ch until the erd of the second century, concurrently | not unlike that which prevailed in Europe of in the writings of the Chinese pillerim Fa-blen occupations. But this social change was only who pays a great tribute to the equitable administration of the country. It was not compared to the difficentury that the social change was only who pays a great tribute to the equitable administration of the country. It was not the development of the Hindu reliable to the middle of the fifth century that the gion into a form which would include in its mill the middle of the fifth century that the gion into a form which would include in its embrace of the onset of the White Huns from the country who were outside it. The great in face of the onset of the White Huns from I halpats as warriors in the place of the Kahattriappeared. The following century all over the Riphy and spread, from their two marked only by the rise and fall of petty kingdoms, apparently who were outside it. The great political event of the period was the rise of the Central Asla—and by 480 the dynasty had dispersed to the place of the Kahattriappeared. The following century all over the End of the principle of the Kahattriappeared of the central occupations. But this social change was only occupations. But the social change was only occupations. But this social change was only occupations. But the social change was only occupations. But the social change was only of the Ringdom of the provide was the rise of the Kanatina sunt of the central of the Ringdom of the provide was on

y name. Harcha was the last native para-larabla.

by name. Harcha was the last native para-larabla.

mount sovereign of Northern India; on his death in 648 his throne was usurped by a political history of India centres round the Minister, whose treacherous conduct towards and tho kingdom of China was quickly avenged.

and the kingdom so laboriously established the conduct towards into a state of interaction strile which lasted for a century and a half.

The Andhras and Raiputs.

The Andhras and Raiputs.

The Andhras and Raiputs.

The Andhras and Raiputs. In the meantime in Southern India the most famous in India. Later in the same Andhras had attained to great prosperity and century the Chauhans were united, and by

the new civilization that had been evolved out has on find. In the boath had us kings of the of choos; and of the greatness of that age! Bahunol dynasty meds now set if you dies, there is a splendld memorial in the temples equivally in the long wars they had don't hand forts of the Ralput states and in the two lonew Bhidu blood out that had acts a which had great philosophical cyclems of Sankaracharya, its capital at Vijayaowat, Of importance (uluth century) and Ramanula (twelfth conjunts) was Add Rham, a but, who ferreled (149) tury). The triumph of Rindulum had been the Bilayert dynasty of Add Stohle. It was achieved, it must be added, at the expense of one of his correspond of the Mahomedan conques and which higher dynasty of Add Stohle. It was achieved, it must be added, at the expense of one of his correspond to the Mahomedan conques and which higher is famous. speedily disappeared there before the new faith.

Mahomedan India,

The wave of Mahomedan invaders that eventually swept over the country first touched eventuary swept over the country and content and con-cuttle account of the ground India, in Sind, less than a hundred yets after of India as a whole. I trebe direct in the death of the Prophet in 632. But the story have to be picked up one by me and fellers real contact was in the tenth country lowed to the kindler, and although the viterally when a Turkish clave of a Persian ruler found—century saw the first Entopean a titlement in od a kingdom at Ghazul, between Kabul and India, it will be convenint term to continue Kandahar. A descendant of his, Mahmud (967-1030) made repeated raids into the heart of India, capturing places so far apart as Multan, Kanauj, Gwallor, and Somnath in Kathlawar, but permanently occupying only a part of the Punjab. Enduring Mahomedan rule was not established until the end of the twelfth century, by which time, from the little territory of Ghor, there had aris n one Mahomed takingdom stretch-

Almer, made a brave stand against, and once defeated, one of the armles of this ruler, but was himself defeated in the following year. Mahomed Ghort was murdered at Lahore (1200) and his vast kingdom, which had been governed by satraps, was split up lute what 1413), the kingdom of Delhi went to pieces and India was for even months at the mercy of the Turkish conqueror Talmur. It was the end of

the Bay of Bingal, ruler of Delhi and

1163 one of them could beast that he had compared an enterprise maintenance, though squeed all the country from the Vindhyas to the Himalsvas, including Delhi already a fortress a hundred years old. The son of this condition of the champles of Ahmedalad, showed line if a real rule queror was Prithul Raj, the champles of the man build real well as a real rule in the man build real well as a real rule in the man build real well as a real rule in the man build real well as a real rule in the man build real well as a real rule in the man build rule well as a real rule in the man build rule well as a real rule in the man build rule in the man build rule well as an build. It is the best the condition of the man build rule well as a real rule in the man build rule the new civilization that had been evolved out as on land. In the booth various kings of the

The Mughat Empire.

As end draws near to made in those it becomes impossible to present autilian like a coherent and con-cuttie account of the growth century saw the first Emigram at their ate to India, it will be convenient less to continue the naturative of Mahom dan India almost to the end of the Shighed Emilie. How Ealer gained Delhi has already be n feld. His zen. Humayan, creatly extend I his kingdom, but was eventually defeated (1519) and drives into exile by Sher Klein, an Alphan of great capabilities, who e short retruented in 1518. The Sur denvity thus tenned by Sher Klein Listed another ten years when Humayun, having -natched Kabul from one of his brothers, was strong chough to win back part of his old kies dom. When Hungayan di d (1554) his riddom. on, Abbar, was only 16 years old and has roy fronted by many rivals. Nor was Akhar well served, but his career of computer was almost uninterrupted and by 1591 the whole of Indi-North of the Nerhudda Loi board to his authority, and he subsequently entered the Decean and captured Ahmedragar. The great rule, who was as markable for his religious tolerance as for his military provess died in 1605, I aving behind him a record that he how to the terminal to the line when the contract of the contr governed by sattaps, was spill up into what authority, and he subsequently entered to were practically independent sovereignties. Decean and captured Ahmedangar. This of Delhi and Labore, was the most famous, relations to tamee as for his adilitary provers and is remembered by the great mosque he disclose to tamee as for his adilitary provers the built near the modern Delhi. Between his rule and that of the Mughals, which began in 1520, only a few of the many Kings who governed and fought and built beautiful builds. The post ruled until 1627, began to an admirter crack and doubt the delay of these stand out with disapteting. One of these rule and that of the Mughals, which began in the present lady Nur Jahan 1520, only a few of the many Kings who gover ruled until 1027, bequeathing to an admiring rand and fought and built beautiful buildings, stand out with distinction. One of these was Ala-ud-din (1200-1310), whose many expectations to the south much weakened the Histor, Shahi, and who proved himself to be a capable administrator. Another was Firez to make his court of incredible magnificent Shahi, of the house of Tughlaq, whose administrator was in many respects admirable, but all tonds, the Taj Mahal, as well as the fort which ended, on his abdication, in confusion. In the reign of his successor, Mahmud (1308-1413), the kingdom of Delhi went to pieces and Shahi, and by one of them. Aurangach, in 1655. Shahlahan by one of them, Aurangzeb, in 1633. This Emperor's rule was one of constanting and fighting in every direction, the most important of his wars being a twenty-fix the fifteenth century before the kingdom, under Sikandar Lodi, began to recover. His son, Deccan who, under the leadership of Sival that had been recreated, but was defeated by Babar, King of Kabui, at Panipat, near Delhi, In 1526, and there was then established in India the Mughal dynasty.

The Mahomedan dynasties that had ruled in the source of the sourc The Mahomedan dynasties that had ruled in the south, but he was unable to hold he capitals other than Delbi up to this date many conquests, and on his death (1707) it Empire, for which his three sons were fichting, sea fight off Swally (Suvall) in 1612. The could not be held together. Internal disorder and Maratha encroachments continued during the most important English foothold in the the most important English foothold in the the most important English foothold in the danger appeared in the person of Nadir Shah, the Person conqueror, who carried all before (1610) and Highli (1651). In the history lim. On his withdrawal, leaving Mahomed of these early years of British enterprise in Shah on the throne, the old intrigues recomplished the Marathas began to make the the dower of Catherine of Braganza stands out most of the appearance of the proportionity offered to them by as a land-marke; it also illustrates the weekmost of the opportunity offered to them by as a land-mark; it also illustrates the weak-puppet rulers at Delhi and by almost universal discord throughout what had been the return the King of England undertook to pro-llusha! Empire. There is little to add to the listory of Mahomedan India. Emperors continue to the Portuguese in India against their fore—the Marathas and the Dutch. Cromwell, ed to reign in name at Delhi up to the niddle of by his treaty of 1654, had already obtained the 19th century, but their territory and power had long since disappeared, being swallowed up either by the Marathas or by the British.

European Settlements.

The vorage of Vasco da Gama to India in 1493 was what turned the thoughts of the Portuguese to the formation of a great Empire in the East That idea was soon realized, for, in the cast line into was soon realized, for, from 1500 enwards, constant expeditions were tent to India and the first two Viceroys in India—Almeida and Albuquerque—laid the foundations of a great Empire and of a great trade monopoly. Goa, taken in 1510, became the capital of Portuguree India and remains to the capital of Portuguree India and remains to this day in the hands of its captors, and the countless ruins of churches and forts on the shores of Western India, as also farther Last at Malacea, tertily to the zeal with which the Portuguese endeavoured to proparate their religion and to the care they took to defend their rettlements. There were great soldiers and great missionaries among them-Aland great indisdonaries among them—Albuquerque, da Cunha, da Castro in the former class, St. Francis Xavier in the latter. But the glory of Empire loses something of its lustre when it has to be paid for, and the content drain of men and money from Portugal, necessitated by the attacks made on their possessions in India and Malaya, was found almost intolerable. The junction of Portugal with Spain, which lasted from 1680 to 1640, also tended to the downfall of the Eastern Empire and when Portugal became independent pire and when Portugal became independent again, it was unequal to the task of competing in the Last with the Dutch and English. The Dutch had little difficulty in wresting the greater part of their territory from the Portuguese, but the seventeenth century naval wars with England forced them to relax their hold upon the coast of India, and during the French wars between 1705 and 1811 England took all Holland's Eastern possessions, and the Dutch have left in India but few traces of their civi-

really dates from 1600 when Elizabeth incorporated the East India Company which had been formed in London. Factories in India

The French Wars. were founded only after Portuguere and Duch

from the Portuguese an acknowledgment of England's right to trade in the East; and that right was now threatened, not by the Portuguese, but by Sivaji and by the general disorder prevalent in India. Accordingly, in 1686, the Company turned its attention to acquiring territorial power, and announced its intention to establish such a policy of civil and military power, and create and secure and hinting power, and create and secure such a large revenue.....as may be the foun-dation of a large, well-grounded, sure English dominion in India for all time to come. Not much came of this announcement for some time, and no stand could be made in Bengal against the depredations of Aurangzeb. The foundations of Calcutta (1690) could not be laid by Job Charnock until after a humillating peace had been concluded with that Emperor, and, owing to the difficulties in which the Company found steelf in England, there was little chance of any immediate change for the better. The union of the old East India Company with the new one which had been formed in rivalry to it took place in 1708, and for some years peaceful development followed; though Bombay was always exposed by 8-a to attacks from the plates, who had many strongholds within easy reach of that port, and on land to attacks from the Marathas. The latter danger was felt also in Calcutta. Internal dangers were numerous and still more to be feared. More than one mutiny took place among the troops sent out from Encland, and rebellions like that led by Kelgwin in Bombay threatened to stifle the Infant settlements. The public health was bad and the rate of mortality was at times appalling. To cope with such conditions appaining. To cope with such conditions etrong men were needed, and the Company was in this respect peculiarly fortunate; The long list of its erreants, from Oxenden and Aungler to Hastings and Raffles, contains many names of men who proved themselves good rulers and far-lighted statemen, the larger Paralle hullders, the world have transle hullders, the world have transle hullders, the

lication and of the once powerful East India linest Empire-hullders the world has known. Company of the Netherlands.

The first Empire to compate with the English were made of course. But the rehermes of the date from 1196 when Cabot tried to find the Emperor Charles VI to secure a share of the North-West passage, and these attempts were Indian trade were not much more successful repeated all through the sixteenth century. Indian those made by Scotland, Denmark, The first Linglishman to land-in India is said to have been one Thomas Stephens (1679) who founded Pondicherry and Chandernagoro towas followed by a number of merchant adverse was followed by a number of merchant adverse was achieved, as will be sen from the followed by the first first 1669 when Tilwhigh Index.

When war broke out between England and opposition had been overcome, notably in the Trance in 1741, the French had acquired a at Murshidabad, and the price of this honour vas put at £ 2,340,000 in addition to the grant into three large States—Hyderabad, Tanjore, and alysoro—and a number of petty states under local chieftains. In the affairs of these States Duplex, when Governor of Pondicherry, had intervened with success, and when Madras was captured by a French squadron, under La Bourdonnais (1746) Dupleix wished to band it over 15 the Name of Areat—a Lafar, in the price of this honour was put at £ 2,340,000 in addition to the grant to the Company of the land round Calcutta now known as the District of the twenty-four Parganas. In the year after Plarsey, Clive was appointed Governor of Bengal and in that capacity sent troops against the French in Madras and in person led a force against the Dudd at my that was threatening Mir Lafar, in the price of this honour was put at £ 2,340,000 in addition to the grant to the Company of the land round Calcutta was put at £ 2,340,000 in addition to the grant to the Company of the land round Calcutta. to hand it over to the Nawab of Arcot-a deputy of the Nizam's who ruled in the Car-natic. The French, however, kept Madras, repelling an attack by the disappointed Nawab as well as the British attempts to recapture it." The treaty of Aix-la-Chapelle restored Madras to the English. The fighting had shown the Indian powers the value of European troops, and this was again shown in the next French war (1750-54) when Cilve achieved enduring and the first shots fired by his capture and subsequent defence the signal for a general rising in Bengal, porling candidates for the disputed and subsequent About 200 Englishmen and a supplied and the signal for a general rising in Bengal, porling candidates for the disputed area. of Arcot. This war aross from Dupleix supporting candidates for the disputed success were massacred, but his trained regiments sions at Arcot and Hydernbad while the were defeated at Gherla and Oodeynullah, and English at Madras put forward their own nominates. One of Dupleix's officers, the Marquis of Oudh. But in 1764, after quelling a sepoy de Bussy, persuaded the Nizam to take into mutiny in his own camp by blowing 24 ringshis pay the army which had established his power, and in return the Northern Circars, Munro defeated the joint forces of Shah Alang, between Orisa and Madras, was granted to the in the battle of Buxar. In 1765 clire (now tured by the English in the seven years' war in the battle of Buxar. In 1765 clire (now tured by the English in the seven years' war around the Southern Circars of Shah Alang, in the battle of Buxar. In 1765 clire (now tured by the English out of India, captured name, of territorial power, under the field for the English out of India, captured name, of territorial power, under the field won at Wandiwash (1760) and the surrender service, by prohibiting illicit gains, and by of Pondicherry passed more than once from the carried out by his immediate successors. But Pondicherry passed more than once from the one nation to the other before settling down to its present existence as a French colony in miniature.

Battle of Plassey.

While the English were fighting the third French war in the South they became involved in grave difficulties in Bengal, where Simj-ud-Daula had acceded to power. The head-quarters of the English at Calcutta were threatened by that ruler who demanded they should surrender a refugee and should cease building fortifications. They refused and he marched against them with a large army. Some of the English took to their ships and mide off down the river, the rest surrendered and were cast into the jall known as the "Elack Hole." From this small and stifling room 23 persons, out of 140, came out alive the next day. Clive who was at Madms,

in Madras and in person led a force against the Oudh army that was threatening Mir Jafar, in each case with success. From 1760 to 1765 Clive was in England. During his absence the Council at Calcutta deposed Mir Jafar and, for a price, put Mir Kasim in his place. This ruler moved his capital Monghyr, organized an army, and began intrigue with the Nawab Wazir of Oudh. no sought the substance, although not the name, of territorial power, under the fiction of a grant from the Mughal Emperor. Second, he desired to purify the Company's service, by prohibiting illicit gains, and by guaranteeing a reasonable pay from honest-sources. In neither respect were his plants carried out by his immediate successors. But Jun efforts towards a sound administration our efforts towards a sound administration date from this second Governorship of Clive; as our military supremacy dates from his vic-tory at Plassoy." Before Clive left India; in 1767, he had readjusted the divisions of Northern India and had set up a system of Government in Bengal by which the English received the revenues and maintained the army widle the criminal jurisdiction was vested in the Nawab. The performance of his se-cond task, the purification of the Company's service, was hotty opposed but carried out. He died in 1774 by his own hand, the House of Commons having in the previous year censured him, though admitting that he did render "great and meritorious services to his country."

Warren Hastings.

room 23 persons, out of 140, came out alive the next day. Clive who was at Madms, immediately sailed for Calcutta with Admiral Watson's squadron, recaptured the town (1757), and, as war with the French had been proclaimed, proceeded to take Chandernapore. The Nawab Siraj-ud-Daula then took Hastings had to undertake the administrative the side of the French, and Clive, putting forward Mir Jafar as candidate for the Nawab's throne, marched out with an army consisting, fought a duel and of other members of his Council at Mir Jafar as candidate for the Nawab's throne, marched out with an army consisting, fought a duel and of other members of his Council at Mir Jafar as candidate for the Nawab's throne, marched out with an army consisting, fought a duel and of other members of his Council at Mir Jafar was put on the throne was Governor of Bengal, and from 1774 to 1775 to 1774 to 1775 to 1774 to 1775 to 1774 to 1776 to 1774 to 1775 to 1774 to 1776 to 1776 to 1774 to The dual system of government that Clive

ment to place its own nominee on the throne of Wellington) and General (Lord) Lake carries the Perhwa at Poona, and the Bengal troops, all before them, the one by his victories of that he sent over made amends, by the conquest of Gujant and the capture of Gwallor, for and Laswart. Later operations, such as Colothe disgrace of Wadgaon where the Marathas nel Mouson's retreat through Central India overpowered a Bombay army. In the Southwester interference from Madras had already of territory made under Lord Wellesley proved led (1762) to what is known as the first Mysore so expensive that the Court of Directors, bewar, a diasetrous campalym against Hyder All and the Madras Government again in conflict with those two potentates. The Nizam he won over by diplomacy, and Sir George Barlow carried on the government against Hyder All he had to despatch a ment (1805-7) until the arrival of a stronger Bengal army under Sir Eyre Cooke. Hyder ruice, Lord Minto. He managed to keep the All died in 1782 and two years later a treaty was made with his som Tipn. It was in these tith dominions by the conquest of Java and acts of intervention in distant provinces that Mauritius. His foreign policy was marked by Hastings showed to best advantage as a great mayings showed to best advantage as a great another new departure, insertuch as he opened and courageous man, cautious, but switt in relations with the Punjab, Persia, and Afghnation when required. He was succeeded, nitan, and concluded a treaty with flanjit siter an interregnum, by Lord Cornwallis Singh, at Labore, which made that Sikh ruler (1766-03) who built on the foundations of civil the loyal ally of the British for life, administration laid by Hastings, by entrusting the successor of Lord Minto was Lord Molm; criminal jurisdiction to Europeans and the Month of the Mintel obliged almost at once to declare war on the Gurkins of Nepal, who had Judicature at Calcutta. In the Civil Service been encreaching on British territory. After the service of the Mintel Col. Hartings showed to best advantage as a great he separated the functions of the District Collictor and Judge and organized the "writers" Ochterlony, were successful and the Treaty of and "merchants" of the Company into an ad-Sagaull (1816) was drawn up which defines ministrative Civil Service. This system was British relations with Nepal to the present day. Eabsequently extended to Madras and Bombay. For this success Lord Moins was made Marquis Lord Comwallis is better known for his intro- of Hastings. In the same year he made prepaduction, on orders from England, of the Permittons for the last Maratha war (1817-18) manent Settlement in Bengal. (See article which was made necessary by the lawless concern Land Revenuel. A third Mysore war was duct of the Findart, gangs of Pathan or Robilla waged during his tenure of office which ended office, whose chief patrons were the rulers of in the submission of Tipu Sultan. Sir John Native States. The large number of 120,000 that Effort Clord Telemonth), an experienced he collected for this purpose destruct the Pinhe separated the functions of the District Col-

he was the first Governor-General, nominated large tracts of territory in lieu of payments under an Art of Parliament pared in the overdue as subclifes for British troops, he then revious year. His financial reforms, and the won over the Nizam to the British iteops, he then forced contributions he enacted from the laster exposing the intrigues of Tipu Sultan rebellious Chet Singh and the Begam of with the French, embarked on the fourth Outh, were interpreted in England as acts. Mysore war which ended (1709) in the fall of Coppression and formed, together with his action in the trial of Nuncomar for forcery, the Laste of his seven pract' trial before the House of Lords which ended in a verdict of not guilty of to-day then passed to British rule. The on all the charges. But there is much more for which his administration is justly famous, the Garkwar of Barsela, Shodhla of Gwallor, The recovery of the Marathas from their defeat. Holkar of Indoor and the Baja of Narpur—at Panipat was the cardinal factor that in—land still to be brought fatto the British frunced his policy towards the native states, net. The Peshwa, after being defeated by One frontier was closed against Maratha lawa-Holkar, fied to British territory and signed them by the loan of a British britande to the the Treaty of Barsela which led to the Nawab Wazir of Oudh, for his war against the carded by Sindhia and the Raja of Narpur at Marathas. In Wetern India he found himself a betanyal of Maratha Independence. In this committee to the two Maratha wars (1775-52) the most successful of British campairns in owing to the ambition of the Bombay Govern— India, Sir Arthur Wellesley (the Dake of ment to place its own nomince on the throne of Wellington) and General (Lord) Lake carries the sent over made amonds, by the con-Mauritius. His foreign policy was marked by another new departure, inasmuch as he opened

been enercaching on British territory. After initial reverses, the English, under General Ochteriony, were successful and the Treaty of Shore (Lord Teignmouth), an experiment he collected for this purpose destroyed the Pin-civil Servant, encounded Lord Comwallis, and, daris, annexed the dominions of the rebellious in 1703, was followed by Lord Wellesley, the Peshwa of Poona, protected the Rajput States; friend of Pitt, whose projects were to change the man of Loris. Civil Servant, encoceded Lord Comwallis, and, daris, annexed the dominions of the rebellions in 1703, was followed by Lord Wellesley, the fixed of Pitt, whose projects were to change the map of India.

Lord Wellesley's Policy.

The French in general, and "the Corsican" to particular, were the enemy most to be draded for a few years before Lord Wellesley; the resigned, in 1823, all the Native States outside the Punjab had become parts of the policinated for a few years before Lord Wellesley; their system and British inferests were pertook up his duties in India, and he formed the schemes of definitively ending French schemes Singapore. Lord Amherit followed Lord In Asia by placing kimedia at the head of a Histings, and his five years' rule (1823-28) great Indian confederacy. He started by obtaining from the Nawah of Outh the cersion of the capture of Bhamtpur. The former operawas undertaken owing to the Insolent debands and raids of the Burnese, and resulted in the Burnese cedling Assam, Arcan, and the cost of Martaban and their claims to the lower provinces. The capture of Ehrnatpur by Lond Combarners (1820) wind out the repulse which General Lake had received there twenty years earlier. A disputed succession on this occasion is d to the British intervention.

Social Reform.

A former Governor of Madras, Lord William Bentinek, was the next Governor-General. Its epitaph by Macaulay, says: "He abolished cruel rites; he effaced humiliating distinctions: he gave liberty to the expression of public opinion; his constant study was to clevate the intellectual and moral character of the nations committed to his charge."

Some of his financial reforms, forced on him from England, and his widening of the gates by which educated Indians could enter the service of the Company, were most unpopular at the time, but were colleged by the acts he took for the obolition of Sati, or widow-burning, and the suppression—with the help of Captain Sleeman—of the professional hereditary assassins known as Thijs. In 1832 he annexed Cachar, and, two years later, Coorg. The incompetence of the ruler of Mysore forced him to take that State also under British administration-where it remained until 1881. His rule was marked in other ways by the despatch of the first steamship that made the massage from Bombay to Sucz, and by his settlement of the long educational controversy in favour of the advocates of instruction in English and the remaculars. Lord Wilson Bentiack left India (1835) with his programme of reforms unfinished. The new Charter Act of 1833 had brought to a close the commercial business of the Company and emphasized their position as rulers of an Indian Empire in trust for the Crown. By it the whole administration, as well the legislation of the country, was placed in the hands of the Governor-General in Council, and authority was given to create a Presidency of Agra. B fore his retirement Ben-tinck assumed the statutory title of Governor-General of India (1834), thus marking the progress of consolidation since Warren Hastings in 1774 became the first Governor-General of Fort William. Sir Charles Metcalfe, being senior member of Council, succeeded Lord William Bentinck, and during his short tenure of office carried into execution his predecessor's measures for giving entire liberty to the press.

Afghan Wars.

With the appointment of Lord Auckland as Governor-General (18:64-2) there began a new era of war and conquest. Before leaving London he announced that he looked with extitation to the prospect of "promoting education and knowledge, and of extending the blessings of rood Government and happiness to millions in India;" but bis administration was almost exclusively comprised in a fatal expedition to Afghanistan, which dragged in its train the annexation of Sind, the Sikh wars, and the inclusion of Biluchistan in the protectorate of India. The first Afghan war was undertaken partly to counter the Russian advance.

in Central Asia and partly to place on the throne at Kabul the dethroned ruler Shall Shuja in place of Dost Mahomed. The latter object was easily attained (1839) and for two years Aighanistan remained in the military occupation of the Kritish, In 1811 Sir Alexander Burnes was assassinated in Kabul and Sir William Macnaghten suffered the samo fate in an interview with the son of Dost Mahomed. The British Commander in Kabul, Gen. Elphinstone, was old and feele, and after two months' delay he led his army of 4,500 and 12,000 camp followers back towards India in the depth of wlater. Between Kabul and Jallalabad the whole force perished, either at the hands of the Afghans or from cold, and Dr. Brydon was the only survivor who reached the latter city. Lord Ellenborough succeeded Lord Auckland and was persuaded to send an Lord Auckland and was persuaded to fend an army of retribution to refleve Jallakbad. One force under Gen. Poliock relieved Jallalsbad and marched on Kabul, while Cen. Note, advancing from Kandalari, captured Ghazni and Joined Poliock at Kabul (1842). The bazzar at Kabul was blown up, the prisoners resued, and the army returned to India leaving Dost Mahomed to take undisputed possession of his throne. The drama unded with a hombastic produpation from Lord with a bombastic professation from Lord Ellenborough and the parade through the Punjab of the (spurious) rates of Somnath taken from the tomb of Mahmud of Ghazni.

Sikh Wars.

Lord Elienborough's other wars the con-quest of Sind by Sir Charles Napler and the suppression of an outbreak in Gwallor-were followed by his recall, and the appointment of Sir Henry (1stL ord) Hardings to be Governor-General. A soldier Governor-General was not unacceptable, for it was felt that a trial of strength was imminent between the British and the remaining Hindu power in India, the Sikhs. Ranjit Singh, the founder of the Sikh Kingdom, had died in 1830, loyal to the end to the treaty he had made with Metcalfe thirty years earlier. He left no son capable of ruling and the bhalsa, or central council of the Sikli army, was burning to measure its strength with the British sepoys. The intrigues of two men, Lal Singh and Fej Singh, to obtain the supreme power led to their crossing the Sutlei and invading British territory, Sir Hugh Gough, the Commander-in-Chief, and the Gov-ernor-General hursed to the frontier, and within three weeks four pitched battles were fought—at Mudki, Ferozeshah, Aliwal and Sobman. The Sikha were driven across the Suffej and Labore surrendered to the British. but the province was not annexed. By the terms of peace the infant Dhuleep Singh was recognized as Rajah; Major Henry Lawrence was appointed Resident, to assist the Sikh Council of Reçency, at Lahore; the Juliundur Doab was added to British territory; the Sikh army was limited; and a British force was sent to garrison the Punjab on behalf of the child Rajah. Lord Hardinge returned to England (1818) and was succeeded by Lord Dathousie, the greatest of Indian proconsuls.

the annexation of Sind, the Sikh wars, and the inclusion of Baluchistan in the protectorate of India. The first Afghan war was undertaken partly to counter the Russian advance; wala the British lost 2,100 officers and men

The lower valley of the Irawaddy was occupied from Rangoon to Prome and annexed, and I the name of Ponn, to those provinces that had been acquired in the first Burmese war. Brithe territories were enlarged in many other, directions during Lord Dathousie's tenure of office. He "doctring of large" by which limited rule was substituted for Indian in States where continued misrule on the failure of a dynasty made this change possible, came of a dynasty made that classic possible, came into practice in the case of Satara, Jianai, and Magpur (which last-named State became the Central Provinces) where the rulers died without leaving male heirs. Oudh was annexed on account of its misule. Dathouse left many other marks on India. He reformed the administration from top to bottom, founded the Public Works Department, initiated the reformed and rectal entering the second and rectal entering the second and rectal entering the second and account of the second account of the railways, telegraphs and postal system, and completed the great Ganges canal. He also detached the Government of Bengal from the charge of the Governor-General, and summoned representatives of the local Governments to the deliberations of the Government of India. Finally, in education he laid down the lines of a department of public instruction and initiated more practical measures than those devised by his predecessors. It was his misfortune that the mutiny, which so swiftly followed his resignation, was by many critics in England attributed to his passion for

The Sepoy Muliny.

Dalliousle was succeeded by Lord Canning In 1856, and in the following year the sepoys of the Bengal army muticid and all the valley of the Ganges from Delhi to Patra roce in rebellion. The causes of this convulsion are difficult to estimate, but are probably to be found in the unrest which followed the progress of English civilication; in the spreading of false rumours that the whole of Indla was to be subdend; in the confidence the sepoy troops had acquired in themselves under British leadership; and in the ambition of the educated classes to take a greater share in the government of the country. Added to this, there was in the deposed King of Delhi, Bahadur Shah, a centre of growing disaffection. Finally there was the story—not devoid of truth—that the carridges for the new Enfield

besides four runs and the erdeam of three right the expoys at Meral rest in muting, cut down besides four suns and the colour of three rest. the propent Norm recells musting, cut down recells: but before reinforcement could arrive a few Europeans, and, unchecked by the large from England, trincians for Charles Napir as a Europeans, and, unchecked by the large from England, large from England as Europeans and the Mahomedans rose. From stered his appearance the Punjab was annexed and because a Britti h produce (1840), its pecification being so well carried out, under the trouber for the number of the Punjab was annexed and being so well carried out, under the trouber of the armount of the punjab was subsciently for the number of the first part o bark on war, this time in Burma, owing to the of Madras and Boml ay remained for the most Eletreatment of British merchants in Rangeon, part true to their colours. In Central India, the centiments of some of the great chiefs joined the reb is, but Hydembad was kept loyal by the influence of its mini-ter, Sir Salar

> The interest of the war centres round Delhi, Campore and Lucknew, though in other place mar acree and finiting occurred. The stree of Delhi began on June 8 when Sir Henry Harnard occupied the Ridge outside the town. Barnard dl.d of cholera early in July, and Thomas Reed, who took his place, was obliged through illness to hand over the command to Archdale Wilson. In August Nicholson arrived with a r inforcement from the Punjab. In the meantime the rebel force in Delhi was constantly added to by the arrival of new bodies of mutineers; attacks were frequent and the losses heavy : cholera and sunstroke carried off many victims on the Eldge: and when the final as-ault was made in September the Delhi army could only parade 4,720 infantry, of whom 1,960 were Europeans. The arrival of slege guns made it possible to advance the batteries on September 8, and by the 13th a breach was made On the following day three columns were led to the assault, a fourth being held in reserve. Over the ruins of the Kashmir Gate, blown in by Horne and Salkeld, Col. Campbell led his men and Nicholson formed up his troops within the walls. By nightfull the British, with a loss of nearly 1,200 killed and wounded, had only secured a foothold in the city. Six days' street fighting followed and Delhi was won; but the gallant Nicholson was killed at the head of a storming party. Bahadur Shah was taken prisoner, and his two sons were shot by Captain Hudson.

Massacre at Cawapore.

At Cawnpore the sepoys mutinied on June 27 and found in Nana Sahih, the heir of the last Peshwa, a willing leader in spite of his fornger professions of loyalty. There a Luropean force of 240 with six guns had to protect 870 non-combatants, and held out for 22 days, surrendering only on the guarantee of the Napa that they should have a safe conduct as far as Allahabad. They were embarking on boats on the Ganges when fire was opened on them, the men being shot or backed to pleces before the eyes of their wives and children and the women being mutilated and murdered in Cawnpore to which place they were taken back. truth—that the cartridges for the new Enfield Cawnpore to which place they were taken pace, triffe were greased with tat that rendered them. Their bodies were thrown down a well just beunclean for both Hindus and Mahomedans, fore Havelock, having defeated the Nana's
And when the mutiny did break out it found forces, arrived to the relief. In Lucknow a
the Army without many of its best officers small gardson held out in the Residency from
who were employed in civil work, and the July 2 to September 25 against tremendous
British troops reduced, in spite of Lord odds and enduring the most fearful hardships,
Dalhousie's warmings, below the number he The relieving force, under Havelock and Outconsidered essential for eafety. On May 10 ram, was itself invested, and the garrison was

in November. Fighting continued for months in Oudb, which Sir Colin Campboll in American in Central India, where Sir Hugh Rose waged a brilliant campaign against the disinherited Rani of Jhansi—who died at the head of her troops—and Tantia Topl.

Transfer to the Crown.

With the end of the mutiny there began a new em in India, strikingly marked at the out-set by the Act for the Better Government of India (1858) which transferred the entire administration from the Company to the Crown. By that Act India was to be governed by, and in the name of, the Sovereign through a Secretoleration. A principle already enunciated in the Charter Act of 1833 was reinforced, and all, of every race or creed, were to be admitted as far as possible to those offices in the Queen's service for which they might be qualified. The aim of the Government was to be the bene-fit of all her subjects in India—"In their prosit of all ner subjects in main— in query property will be our strength, in their contentment our security, and in their gratitude our best reward." Peace was proclaimed in July 1859, and in the cold weather Lord Canning went on tour in the northern provinces, to went on tour in the normern provinces, to receive the homage of loyal chiefs and to assure them that the "policy of lapse" was at an end. A number of other important reforms marked the closing years of Canning's Viceroyalty. The India Councils Act (1861) augmented the Governor-General's Council, and the Councils of Madras and Bombay by adding non-official members, European and Indian, for legislative purposes only. By another Act of the same year High Courts of Judicature were consti-tuted. To deal with the increased debt of tuted. To deal with the increased debt of India, Mr. James Wilson was sent from England to be Financial Member of Council, and to lum are due the customs system, income tax, him are due the customs ryseem, means the license duty, and State paper currency. The cares of office had broken down the Viceroy's bealth. Lady Canning died in 1862 and this hastened his departure for England where he died in June of that year. His successor, Lord Elgin, lived only a few months after his arrival

at finally delivered until Sir Colin Campbell | The re-organization was carried out in spite of . financial difficulties and the saddling of Indian revenues with the cost of a war in Abyssinia with which India had no direct concern; but operations in Bhutan were all the drain made . on the army in India while the re-organising process was being carried on. Two sovere famines—in Orissa (1869) and Bundelkhand and Upper Hindustan (1808-9)—occurred, while Sir John Lawrence was Viceroy, and he laid down the principle for the first time in Indian history, that the officers of the Government would be held personally responsible for taking every possible means to avert death by starva-tion. He also created the Irrigation Department under Col. (Sir Richard) Strachey. In the name of, the Sovereign through a series of the time have to be noted tary of State, assisted by a Council of fifteen one seriously threatened the tea industry in members. At the same time the Governor-Bengal. The other was the consequence of General received the title of Viceroy. The the wild gambling in starts of every description of the Company, numbering the took place in Bombay during the about 24,000 officers and men were—greatly tion that took place in Bombay during the years of prosperity for the Indian cotton increased by the American Civil War. Royal service, and the Indian Nary was about The "Share Mania," however, did no permanent harm to the trade of Bombay, but was, announced in Durbar at Allahabad that Queen on the other hand, largely responsible for the Victoria had assumed the government of India, series of splendid buildings begun in that city and proclaimed a policy of justice and religious toleration. A principle already enunciated in the Charter Act of 1833 was reinforced, and passed through every grade of the service, from commercial crises of the time have to be noted. passed through every grade of the service, from an Assistant Magistracy to the Viceroyalty. Lord Mayo, who succeeded him, created an Agricultural Department and introduced the system of Provincial Finance, thus fostering the impulse to local self-government. He also laid the foundation for the reform of the sait duties, thereby enabling his successors to abolish the inter-provincial customs lines. Unhappily his vast schemes for the development of the country by extending communications of every kind were not carried out to the full by him, for he was murdered in the convict of him, for he was murdered in the course settlement of the Andaman Islands, in 1872. Lord Northbrook (Viceroy 1872-0) had to exercise his abilities chiefly in the province of finance. A severe famine which threatened Lower Bengal in 1874 was successfully warded off by the organization of State relief and the Importation of rice from Burma. The following year was notable for the deposition of the Galkwar of Baroda for misgovernment, and for the tour through India of the Prince of Wales (the late King Edward VII). The visit of the Duke of Edinburgh to India when Lord Mayo was Viceroy had given great pleasure to those with whom he had come in touch, and had established a kind of personal link between India and the Crown. The Prince of Wales' Eigin, lived only a few months after his arrival in India, and was succeeded by Sir John (afterwards Lord) Lawrence, the "saviour of the Punjab."

Sir John Lawrence.

The chief task that fell to Sir John Lawrence was that of reorganising the Indian military system, and of reconstructing the Indian army. The latter task was carried out on the prin, worst famino India had known. The most ciple that in the Bengal army the proportion of Europeans to Indians in the Infantry and cavalry should be one to two, and in the Maras and Bombay armies one to three; the artillery was to be almost wholly European, Afghan affairs once more became prominent. tour aroused unprecedented enthusiasm for and

Second Afghan War.

with Russia and that fact, coupled with his repulse of a British mission led to the second Argian War. This British forces advanced by three routes—the Kliyber, the Kurram, and the Bolan—and gained all the imperiant vanuation of Lastern Afghand-tan. Sher All Victory, Lord Landowne, when the present feed and a treaty was made with his son Yakub Khan, which was promutly broken by the Khan, which was promptly broken by the mised. Under Lord Landowne's rule also the murder of Sir Louis Cavagnari, who had been defences of the North-Western Frontier were sent as English envoy to Kabul. Further operations were thus necessary, and Sir I'. (now Lord) Roberts advanced on the capital and defeated the Afghans at Charasta. A rising of the tribes followed, in spite of Sir D. Siewart's sictory at Ahmed Kheyl and his advance from Mictory at Ahmed Kheyl and his advance from Kabul to Kandahar. A pretender, Sirdar Kabul to Kandahar. A pretender, Sirdar Kabul to Kandahar. A pretender Sirdar ment to the Amir from eight to twelve lakks Ayub Khan, from Hent prevented the establishment of peace, defeated Gen. Burrows' brigade at Maiwand, and invested Kandahar. He was routed in turn by Sir P. Roberts who made a brilliant mareli from Kabul to Kandahar. He was routed in turn by Sir P. Roberts who made a brilliant mareli from Kabul to Kandahar. He was routed in turn by Sir P. Roberts who made a brilliant mareli from Kabul to Kandahar. He was routed in turn by Sir P. Roberts who made a brilliant mareli from Kabul to Kandahar. Commissioner of Assam. Mr. Quinton, the commander of his execut, and others, were continued between Ayub Khan and Abdur Rahman, but the latter was left undisputed the except landming in the except landming in the commander of his execut, and others, were tracked. This dispute the calculation of the Kontin Latter was left undisputed to several attacks on the Commissioner of Assam. Mr. Quinton, the commander of his execut, and others, were continued between Ayub Khan and Abdur the Raha the Rahman, but the latter was left undisputed to several attacks on the continued to the Amir from eight to twelve lakhs on the Amir from eight to twelve lak made a brilliant maren from Kaour to Annua-har, After the British withdrawal fichting continued between Ayub Rhan and Abdur Rahman, but the latter was left undisputed Amir of Afghanistan until his death in 1901.

In the meantime Lord Lytton had resigned (1880) and Lord Ripon was appointed Viceroy by the new Liberal Government. Lord Ripon's administration is memorable for the freedom given to the Press by the repeal of the Vernacular Press Act, for his scheme of local selfgovernment which developed municipal institutions, and for the attempt to extend the jurisdiction of the criminal courts in the Districts over European British subjects, independently of the mee or nationality of the presiding judge. This attempt, which created a feeling among Europeans in India of great healthly to the Vicence and in India of great healthly it the Vicence and in a constitution of the president of the vicence and in the president of the vicence and in the vicence and vice hostility to the Viceroy, ended in a compromise Other reforms were the re-establishment of the Department of Revenue and Agriculture, the appointment of an Education Com-mission with a view to the spread of popular instruction on a broader basis, and the aboli-tion by the Finance Minister (Sir Evelyn Baring, now Lord Cromer) of a number of customs duties. Lord Dufferin, who succeeded Lord Ripon in 1884, had to give his attention more to external than internal affairs; one of his first acts was to hold a durbar at Rawalpindi for the reception of the Amir of Afghanistan which resulted in the strengthening of British relations with that ruler. In 1895 a third Burmese war became necessary owing to the truculent attitude of King Thibaw and his intrigues with foreign Powers. The expedition, under General Prendergast, occupied Mandalay without difficulty and King Thibaw was exiled to Ratnaght, where he died on 16th December 1916. His dominions of Upper Burma were annexed to British India on the 1st of January, 1886.

The Russian Menace.

Howards Central Asia, and which reemed likely The Amir, Sher All, was found to be intriguing to lead to a necessary but the Penjath incident had called attention to a menage that was to strengthened, on the advice of Sir Prederick (now Farl) Roberts, who was then Commander-in-Chief in India. Another form of pre-cautionary measure against the continued aggression of Russia was taken by raising the

> grace to British arms led to several attacks on frontier outposts which were brilliantly de-feated. Manipur was occupied by British troops and the government of the State was reorganized under a Political Agent, Lord Lansdowne's term of office was distinguished by several other events, such as the passing of the Parliamentary Act (Lord Cross's Act, 1892), which increased the size of the Legislative Councils as well as the number of nonofficials in them: legislation aimed at social and domestic reform among the Hindus: and the closing of the Indian Mints to the free coinage of silver (1803). In Burma great progress was made, under Sir Alexander Mackenzie, as Chief Commissioner: comparative order was established, and large schemes for the con-struction of rallways, roads, and irrigation works were put in hand. (The Province was made a Lieutenant-Governorship in 1807).

Frontier Campaigns.

Lord Elgin, who succeeded Lord Landowns in 1894, was confronted at the outset with a deficit of Rs. 21 crores, due to the fall in exchange. (In 1895 the rupee fell as low as 1s. 1d.) To meet this the old five per cent. import duties were reimposed on a number of commodities, but not on cotton goods: and within the year the duty was extended to piece-goods; but not to yarn. The reorganisation of the Army, which involved the abolition of the old system of Presidency Armles, had hardly been carried out when a number of risings occurred along the North-West Frontier. In 1895 the British Agent in Chitral—which had come under British influence two years previously when Sir H. M. Durand had demarca-The Russian Menace.

Of greater importance at the time were the measures taken to meet a possible, and as it then appeared a probable, attack on India by Russia. These preparations, which cost tacked the British positions in Malakand, and over two million sterling, were hurried on because of a collision which occurred because of a collision which occurred between Russian and Afghan troops at Panjdeh, during the delimitation of the Afghan frontier troops were employed, and over 1,000 officers

and men had been lost. This was in steell a was Community-in-Chieft by the re-arman'nt heavy burden on the finances of India, which of the India Army, the strengthening of the heavy burden on the finances of India, which of the Indian Army, the strengthenius of the was increased by the serious and wide-pread artillery, and the rangin-fation of the transfamine of 1800-07 and by the appearance in part service. In his relations with the Fends India of bubonic places. The nethods taken topy Thiefs, Lord Correst emphasized their to prevent the spread of that discusseled, by position as partners in administration, and he Bombay, to riothiz, and elsewhere to the ap-

who succeeded Lord Elem in 1809, had to deal, a In 1901 the cycle of but harvests came to an i end; but plague increased, and in 1901 deathfrom it were returned at over one million. Of the many problems to which Lord Curzen directed his attention, only a few can be more flowed here some indeed claim that his greatone department but was in fact the general gearing up of the administration which he achieved by his uncersing energy and personal example of strenuous work. He had at once to turn his attention to the North-West From- the first unable to accept the proposals of Lord for. The British garrisons beyond our love. tier. The British garrisons beyond our boundary were gradually withdrawn and replaced tary Department of the Government, and by tribal levies, and British forces were considered unable to obtain the support of the Home centrated in British territory behind them as dovernment. He was succeeded by Lord a support. An attempt was made to chick the arms traffic and work on strategic rallways was pushed forward. The fact that in seven years he only spent a quarter of a million upon repressive measures and only found it me surv to institute one blockade (against the Malisud Waziri) is the justification of this policy of compromise between the Lawrence and Per-ward schools of thought. In 1991 the trans-Indus districts of the Punjab were separated from that Province, and together with the political charges of the Malakand, the Khyber, Kurram, Tochl, and Wana were formed into the new North-West Prouter Province, under a Chief Commissioner directly responsible to the Government of India. That year also witnessed the death of Abdur liahman, the Amir of Afghanistan, and the establishment of an understanding with his successor Habibullah. In 1901 the attitude of the Dalai Lama of Tibet being pro-Russian and anti-liritish, It became necessary to send an expedition to Lhasa under Colonel (Sir I'mnels) Younghus-band. The Dalal Lama abdicated and a treaty was concluded with his successor.

Lord Curzon as Viceroy.

In his first year of office Lord Curzon passed the Act which, in accordance with the recom-mendations of the Fowler Commission, prac-tically fixed the value of the rupee at 1s. 4d., and in 1900 a Gold Reserve fund was created, The educational reforms that marked this Viceroyalty are dealt with elewhere; chief among them was the Act of 1901 reorgani-ing the governing bodies of Indhan Universities. Under the head of agrarian reform must be mentioned the Punjab Land Allemation Act, designed to free the cultivators of the roll from the clutches of money-lenders, and the insti-tution of Agricultural banks. The emclency of the Army was increased (Lord Kitchener)

of the In lian Army, the strengthening of the polition as partners in administration, and be founded the Imperial Cadet Corps to give # pounday, to noting, and elsewhere to the age formers the imperial court copy of permanels in the vertacular press of rediction, indillary education to the sense of rediction articles which made it necessary to make more articles the families. In 1902 the little stringent the law dealing with such writings.

Howeverment obtained from the Nizam & Perpetual leavy of the Avigned Districts of Berri Lord Curzon's Viceroyalty.

With famine and plague Lord Curron alease the succeeded Lord Libra in 1899, had to deal the a splendid Durbar on January 1; 1801 the cycle of but harvest came to an England for a few months but was respected by the plague increased, and in 1991 deaths. ed to a second term of office, Lord Ampthill; Governor of Madras, having acted as Viertoy during his absence, The child not of this recond term was the partition of Beneal and the emation of a new Province of La tern Lyngal and Kitchener for the resadjustment of relations between the Army headquarters and the Mills Covernment. He was succeeded by Lord Minto, the grandon of a former Governor-tionend. It was a stormy berhage to which Lord Minto succeeded, for the unrest which had long ben noticed developed in one direction into open redition. The occasion of the outburst in Bengal was the partition of that province. The cause of the food of std-thous willings and speeches, of the many attempts at accessmantal, and of the beyont of British goods. of British goods are lett early definable. The mainspring of the unrest was "a depercoted antag mism to all the principles upon which Western society, especially in a democratic country like England, has been built up."

Political Outrages.

Outside Bengal attempts to quell the diafection by the ordinary law were fairly successful. lint carcely any province was fee from disorder of some kind and, though recourse was had to the deportation of persons without reason assigned under an Act of 1618, special Acts had to be passed to meet the situation, the an Explosives Act, a Prevention of Schillous Meetings Act, and a Criminal Law Amendment Act which provides for a magisterial inquiry in private and a trial before three judges of the High Court without a jury. The need for this reinforcement of the law may be shown by 5 list of the principal political outrages in India, while Lord Minto was Viceroy and subsequent to his departure:--

December, 1907.—Attempt to wrick the Licutement-Governor of Bengal's train at Naraingarha

December. 1907 .- Attempt on the life of Mr. B. C. Allen at Goalundo.

March, 1903.—Second attempt to wreck Sir Andrew Fraser's train at Chandernagore.

Lord Minto.

As regards foreign policy, Lord Minto's Viceroyalty was distinguished by the conclusion (1907) between Great Britain and Russia of an agreement on questions likely to disturb the friendly relations of the two countries in Asia generally, and in Persia, Afghanistan and Tibet in particular. Two expeditions had to be undertaken on the North-West frontier, account the Zakka Khels and the Mohmands; and ships of the East Indies Squadron were frequently engaged off Maskat and in the Persian Gulf in operations designed to check the traffic in arms through Persia and Mekran to the frontier of India. Towards Native . Etates Lord Minto adopted a policy of less in-terference than that followed by his predecesreference than that followed by his processor. He invited their views on sedition, and, in a speech at Udalpur, disclaimed any desire to force a uniform system of administration in Native States, and said he preferred their development with due recard to treaties and local conditions. Lord Minto left India-in-November, 1910, a few wicks after Lord Marke had resigned the Secretaryship of State. Morley had resigned the Secretaryship of State, the tenure of their respective posts having the tenure of their respective posts having the specific posts of time. The position of the Viceroy had in those year materially changed. Lord Minto had a weak administrative questions relating to Indian. Council, and this weakness was reflected in the government of Bengal and Madras; but it is more important to note that Lord Morley had extended the policy of transferring the actual government of India from India to London, to such an extent that the Under-Secretary for India was able to describe the Viceroy as merely the agent of the Secretary of State.

Visit of the King and Queen.

Sir Charles (Lord) Hardingo was appointed to succeed Lord Minto. His first year in India was marked by a weak moneon and famine in parts of Western India, still more by the yielt to India of the King Emperor and the Queen, who arrived at Bombay on December 2. 1911. From there they proceeded to Delhi where, in the most magnificent durbar ever held in India, the coronation was proclaimed and various booms, including an annual grant of 50 laklis for popular education, were an-nounced. At the same ceremony His Majesty announced the transfer of the capital of India from Calcutta to Delhi; the rounion of the two Bengals under a Governor-in-Council; the formation of a new Lieutenant-Governorship for Belmr, Chota Nagpur, and Orissa, and the restoration of Assam to the charge of a Chief Commissioner. On December 14, a riview of thorong spritch and Indian troops was hid, and on the 16th Their Majestles each laid a founda-and 19 tion stone of the new capital. From Delhi the . King went to Nepal, and the Queen to Agra and Rajputana, afterwards meeting at Banki-pur and going to Calentia. Theree they re-turned to Bombay and salled for England on

In March, 1912, a committee of experts was appointed to advise the Government of India as to the site of the new capital. Temporary buildings were crected to accommodate the Government, and on December 23 the State entry into Deihl was made by the Viceroy. This ceremony was marred by an attempt on His Excellency's life as he passed down the Chandai Chauk. The bomb thrown from a house killed an attendant behind the Howdah in which the Viceroy was sitting, seriously wounded Lord Hardinge, but left Lady Hardinge unscathed. The courage displayed by Their Excellencies was unsurpassed and elicited the admiration of all; but, in spite of the offer of large rewards, the assassin was not caught.

Educational schemes claimed a large place in public attention during 1912 and 1919. In the former year a Royal Commission, under the presidency of Lord Islington, was appointed to inquire into the public services of India. In 1912 also a Committee of four was appointed, under the Chairmanship of Field Marshal Loru Nicholson, to inquire into military policy and expenditure in India. In the followadministrative questions relating to Indian finance and currency which had for some years been much discussed particularly in India.

In the North-East of India an expedition; under Gen. Bower, was despatched against the Abors for the punishment of the murderers of Mr. Noel Williamson.

In August, 1913, the demolition of a lavatory attached to a mosque in Camppore was made the occasion of an agitation among Indian Mahomedans and a riot in Camprore led to heavy loss of life. Of those present at the riot, 106 were put on trial but subsequently released by the Viceroy before the case reached the Sessions, and His Excellency was able to settle the mosque difficulty by a compromise that was acceptable to the local and other Mahomedans,

In October, 1913, it was announced that General Sir Beauchamp Duff had been appointed to succeed Sir O'Moore Creagh as Commanderin-Chief. This was a departure from the long tradition of alternately choosing the Comman-der-in-Chief from the British and the Indian Army. There were special reasons for the nomination of Sir Beauchamp Duff, who as Adjutant-General in India, and Chief of Staff durng Lord Eltchener's term gave proof of his thorough knowledge of Indian conditions and his exceptional powers as a military administrator. The Military changes in India in 1905 and 1999 had profoundly modified the duties of the Commander-in-Chief and had conferred on him alone duties formerly divided between the Commander-in-Chief and the Military Member of Council and had made him the adminis-

vernment of a Committee of Inquiry at which I the Government of India was represented by Sir Benjamin Robertson. The Commission's report afforded the basis of a settlement commonly regarded as equitable. In the autumn of 1914 the Viceroy, at a Council meeting, outlined a reciprocal scheme for controlling emigration in India and in the Colonies, as an alternative to the principle of free migration between all parts of the Empire, for which the Government of India had long contended.

In July the death of Lady Hardinge, wife of the Viceroy, took place in London after an operation. The courage she had displayed at Delhi when the Viceroy was wounded by a bomb, and the sympathetic and active interest the had displayed in the women and children of India, had endeared her to all classes. Her death was widely mourned, and her memory is to be perpetuated by a memorial originated by the Aga Khan,

Effects of the War.

The various effects of the European war upon India are fully discussed elsewhere. But it must here be set on record that the declaration of war was followed in India by an unprecedented declaration of loyalty on all sides, and the numerous offers of help or personal service made by the Chiefs and peoples aroused in England a feeling of intense gratitude. A military force numbering some 200,000 was sent from India to Europe and East Africa, within a short time of the outbreak hostilities. The announcement of that fact was made on the sume day that a message from the King-Emperor was published. In it His Imperial Majesty said:—"Amongst the many incidents that have marked the unanimous uprising of the populations unanimous uprising of the populations of my Empire in defence of its unity and integrity political and integrity, nothing has moved me more than the passionate devotion to my Throne expressed both by my Indian and English subjects and by the Feudatory Princes and Ruling Chiefs of India and their prodigious offers of their lives and their resources in the cause of the realm. Their one-voiced demand to be foremost in the conflict has touched my heart and has inspired to the highest issues the love and devotion which, as I well know, have ever linked my Indian subjects and myself." India was not included in the actual theatre of hostilities, except when Madras was subjected to a slight bombardment by the German cruiser "Emden;" but shipping in the Bay of Bengal and in the Arablea is a reason of the state of the arable is a reason of the state of the st and in the Arabian Sea was on several occasions interfered with, and several vessels were sunk, by enemy ships.

In splie of the war the year 1915 was one of comparative peace and order in India. A continuous effort was maintained in all parts of India to keep the troops at the front and the wounded on their return well supplied with "comforts," and the Princes and people of India contributed handsomely to the various war and relief funds.

Th various measures taken in connexion with the war are related elsewhere in this volume. Here mention need be made only

Council which gave power to the Governor-General in Council to issue Regulations to insure the safety of the country and was modelled generally on the English Defence of the Realm Act. It also permitted the creation of a special tribunal of three Commissioners, of whom two must have qualifications of a sessions or an additional sessions judge, to hear cases made over to them by order of the local Government concerning breaches of regulations under the Act for any offence punishable with death. transportation, or imprisonment for a term of seven years. In connexion with the war also the Viceroy—whose term of office was extended by six months-made a journey up the Persian Gulf, visiting the oil works at Abadan, and Basra, Shalba, and Kurna. On his return he visited Maskat, where there had been fighting in January.

There were several fights on the North-West frontier during the year, but the tribesmen never succeeded in penetrating far into British territory. In Bengal, as will be seen from the list of anarchical crimes quoted above, there were a number of signs that the spirit of lawlessness had by no means been stamped out. More serious, however, to the welfare of the country as a whole was the return in September, 1914 (see Indian Year Book, 1914) of a number of Sikh emigrants from British Columbia. The riot at Budge-Budge on that occasion gave a foretaste of the revolutionary plans entertained by many of these men. The sequel was seen in the Lahore Conspiracy case in which a Special Commission sentenced 24 persons to death, 27 to transportation for life, and six to terms of imprisonment. The judgment showed that a plot had been prepared with the object of overthrowing the Government, and the evidence in the case supported the idea that Germans had aided the conspirators and that at least after the war broke out the conspirators regarded themselves as langued with the enemies of Great Britain. Of the death sentences 16 were subsequently commuted to transportation for life. The appeals in the Delhi Compliacy case (Seo Indian Year Book, 1914, p. 650) were heard in the carly part of the year—four by the Privy Comeil—and the sentences confirmed.

In the spring of 1916 Lord Hardinge, whose great services had just been rewarded with the knighthood of the Garter, left India after recelving from all parts of the country proofs of the very high esteem in which he was field. Ills successor Lord Chelmsford had previous to his appointment served in India as an officer of a Territorial regiment.

The effects of the war were felt in a variety of ways, in the constant despatch of drafts for the expeditionary forces and in the reception of a very large number of sick and wounded, particularly from Mesopotamia. The fall of Kut and the general management of the campaign and the general management of the conjugation Mesopotamia excited a great deal of criticism and resulted in the appointment of a committee of inquiry, in the recall of Sir Beauchamp Dun't to give evidence, and in Sir Charles Monro being appointed to be Commander-in-Chief. An equal amount of criticism was directed to certain volume. Here mention need be made only matters of internal administration, such as the of a Bill passed in the Imperial Legislative sending of a troop train from Karachi across the

P. & O. ss. Persia, and the revolt of the Sheriff of Meeca against the Turks. Portugal's action in joining the Allies was welcomed on account of the ancient connexion of Portugal with India; it led in the first instance to the reimure of a number of German and Austrian ships at Marmagoa.

Favoured by a good monsoon and other circumstances the cotton and jute industries attained to a pitch of great prosperity. The appointment of an industries commission gave promise of efforts to be made in the future to develop industrial India, and one way in which that can be done was illustrated in Burma where

its former services in connexion with the war, the country assisted by assuming responsibility for 100 millions of the war debt and raising 40 crores by a War Loan, and by developing

Sind desert in the hot weather which led to 15; Volunteer Force, which came to an end on deaths from heat stroke. Among the events of March 31, was an experiment which attracted the war which particularly affected India were the widest attention throughout the country the death of Lord Kitchener, the loss of the and of which a detailed account is given elsewhere in this volume.

On the frontier it was necessary to undertake punitive measures against the Mahsuds, whose depredations for the most two years in Dera Ismail Khan and Bannu were followed by outrages on the Derajat border which could not be ignored. After a brief campaign the tribesmen were brought to a settlement, and in August the Waziristan Field Forces dispersed. A special Order of the Day issued by the Com-mander-in-Chief noted that for the first time the tribesmen on this part of the frontier had felt the power of the Royal Flying Corps, which carried out its duties with the dash and determined attempts were made to push for which carried out its duties with the dash and determined attempts were made to push for ward the hitherto comparatively neglected wolfram industry.

During the year the foundation stone of the Mindu University at Benarcs was laid.

Developments in 1917.

The year 1017 was in many ways particularly eventful in India. In addition to continuing its former services in connexion with the war, large out its designed and carried out its duties with the dash and daring to which the Army has become accustomed." In the early part of the year judgment was delivered in the second Supplementary Lahore conspiracy case (see above). It showed the wide-spread nature of the Ghard couspiracy and established beyond question that after the outbreak of war Germany consistently encouraged it and that the revolutionists eagerly associated themselves with

To the conclusions of the Public Services Compilssion and of the Mesopotamin Commission reference is made elsewhere in this book. its resources with the help of a Munitions Board. The publication of the latter Commission's But the part played by India in the war was report led to the resignation of the Secretary nacre directly emphasised by her representation of State, Mr. Chamberlain, who had proposed by H. It the Maharela of Bikanir and Sir to visit India during the year, thus establishing S. P. Sinha at the meeting of the Imperial War, a new precedent which was adopted by his Cabinet in London. Not for the first time successor, Mr. Montagu. The visit took place was the war brought Herally to the cates of at a three when the movement in the meeting of the cates of at a three when the movement in the meeting of the cates of at a three when the movement in the movemen Cabinet in London. Not for the lifest time successor, are, storaged, and visit took page was the war brought literally to the gates of at a time when the movement in favour of India—by the laying of enemy mines off Bombay. Home Rule for India had attained to the highest which led to the loss of the P.& O. S.S. Mongolia; pitch yet witnessed and at a time when, as was and other ships, while other India-bound vessels shown by the increase of India nepresentation were lost off Cape Town and by submarine on the Council of India and by the grant of action in the Mediterranean and the Channel, commissions in the Army to Indians, the Go-The result of these attacks on slipping was the vernment was anxious to meet the wishes of prohibition on women travelling to or from the people so far as it could without departing India through any war zone. The creation from its policy of avoiding controversial political of the Indian D-fence Force in place of the issues during the war.

The Governor-General and the "ordinary" members of his Council are appointed by the Crown. No limit of time is specified for their tenure of office, but custom has fixed it at five years. There are six "ordinary" members of Council, three of whom must, at the time of their appointment, have been at least ten years in the service of the Crown in India, one of the three remaining members must be a Barrister, the qualifications of the lifth and sixth are not prescribed by statute. The Indian civilians hold respectively the portfolios of Land Revenue and Agriculture, the Home, the Finance and the Education Departments. The Law Member has charge of the Legislative Department, and a member with English official experience has charge of the Commerce and Industry Department. The Viceroy acts as his own member in charge of Foreign affairs. Railways are administered by a Board of three members, whose chairman has the status of a Secretary, and are under the general control dencies. The Council may assemble at any pince in India which the Governor-General appoints; in practice it meets only in Delhi and Simia.

The supervision of the principal Native States rests directly with the Governor-General in Council, but Local Governments have also responsibilities in this direction, where important States have historical association with them, and in the case of minor States.

Personnel of the Government:

The Governor-General and the "ordinary" members of his Council are appointed by the Crown. No limit of time is specified for little rest of the Viceroy. The Members of Council are appointed by the constant pass fixed it cill meet periodically as a Cablint—ordinarily ell meet periodically as a Cabinet—ordinarily once a week—to discuss questions which the Viceroy desires to put before them, or which a member who has been over-ruled by the Viceroy has asked to be referred to Council. Vicercy has asked to be reterred to Council. If there is a difference of opinion in the Council the decision of the majority ordinarily provalis; but the Vicercy can over-rule a majority if he considers that the matter is of such grave importance as to justify such a step. Each departmental office is in the subordinate charge of a Secretary, whose position corresponds portations of Land Revenue and the Education of the North Council and the Education of the Legislative Department, and a member with English official experience has charge of the Commerce and Industry Department. The Viceroy acts as his own member in charge of Forcign affairs. Railways are administered by a Board of three members, whose chairman has the status of a Secretary, and are under the general control of the Commerce and Industry Department. The Commerce and Industry Department of the Commerce and Industry Department. The Governors of Madras, The Commerce and Industry Department, and are under the general control of the Commerce and Industry Department. The Governors of Madras, Bombay and Bengal become "extraordinary" members if the Council mects within their Presidencies. The Council may assemble at any place in India which the Governor-General appoints; in India office is the United Kingdom; is percentary to that the U

Government of India.

VICEROY AND GOVERNOR-GENERAL OF INDIA,

His Excellency the Right Hon. BARON CHELMSTORD, P. G., G.M.S.I., G.C.M.G., C.M.I.E., assumed charge of office, 5th April, 1916.

PERSONAL STAFF OF THE GOVERNOR-GENERAL.

Private Secretary, J. L. Maffey, C.I.E., I.O.S. Military Scoretary, Lieut.-Col. R. Verney, The Rifle Brigade.

Comptroller of the Household, Major J. Mackenzle, c.r.E., 35th Sikhs.

Asst. Private Secretary, B. J. Gould, I.C.S. Addes-de-Camp, Captain J. A. Denny Grenadier Guards; Captain C. A. Lord Carnegie, Scot-Guards; Captain E. B. Baring; Captain W. Holland-Hibbert; Muhl-ud-din khan; Risal-dar-Major Sardar Bahadur, 31st Lancers; Karam Singh, Risaldar Major, 13th Duke of Connaught's Lancers.

Honorary Aides-de-Camp, Lumsden, R. Adml, W., R. N., C.V.O.; Stanyon, Honv. Col. H. J., C.I.E., V.D., Nagpur. Volunteer Rifles; Cuffe, Hony. Lt.-Col. O. F. L. W., V.D., Upper Burma Vol. Rifles; Agabeg, Hony. Col. F. J., Chota Nagpur Light Horse; Grice, Hony. Col. W. T., V.D., 1st Battallon, Calcutta Vol. Rifles; Knowles, Hony. Col. J. G., C.I.E., V.D., Surma V.L. Horse; Warburton, Hony. Col. H. G., Luck. V. Rifles; Pugh. Hony. Col. A. J., V.D., Calcutta Light Pugh, Hony. Col. A. J., v.n., Calcutta Light Horse; Reed, Hony. Lt.-Col. Sir Stanley, Bombay Light Horse; Henry, Hony. Col. W. Ordinary MembersD., c.i.E., Simla Vol. Rifler; Muhammad Ali Beg. Hony. Lt.-Col. Sir Nawab Bahadur. R.O.I.E., M.V.O., Commanding H. H. the Nizam's Forces; Zorawar Singh, Capt. Commandant, Bhawanagar Imperial Service Lancers: Maharai Sher Singh, Commandant Sardar Elsala, Jodhpur Imperial Service Troops.

Wali Muhamad, Risaldar-Major (Hony. Capt.) Sardar Bahadur, late Gov Body Guard; Abdul Azizh Governor-General's Risaldar-Maj. (Hony, Capt.) Sardar Bahadur, late 5th Cay.; Madho Singh Rana, Subadar-Major (Hony. Capt.) Sardar Bahadur, late 4th G. R.; Abdul Karlm Khan, Risaldar-Major (Hony. Capt.) Sardar Bahadur, late Governor-General's Body-Guard, Mit Singh, Subadar-Major Sardar Bahadur, late 53rd Sikha. Subadar-Major

Khan, Aides-de-Camp, Mahjuddin Major Sardar Bahadur, Risaldar Karam Singh, Risaldar Major, Lancers: 12th Lancers.

Surgeon, Lieut.-Col. H. Austen-Smith, M. B., 1. M. S. Commandant of Body Guard, Capt. W. A. S. de Gale, 5th Cavalry.

COUNCIL.

Sir G. S. Barnes, R.C.B. Took his seat, 6th April, 1916.

Sir William Henry Hoare Vincent.

Sir William Meyer, R.O.S.I., R.O.I.E. Took his seat, 20th June, 1913.

Sir G. H. A. Hill, R.O.S.I., C.L.E. Took his seat, 5th July, 1915.

Sir Sankaran Nair. Took his seat, 2nd November, 1915.

Sir G. R. Lowndes, R.O.S.I Took his seat, 20th December, 1915. (Law).

Extraordinary Member-

· H. E. Gen. Sir Charles Carmichal Monro, G.O.M.G., K.O.R., Commander-in-Chief in India.

SECRETARIAT.

REVENUE AND AGRICULTURE DEPARTMENT. Secretary, R. A. Mant.

Under Secretary, A. E. Gilliat, 1.C.B.
Assistant Wheat Commissioner for India, C. W.

Jacob, I.O.S.
Registrar, J. D. Shapcott.
Superintendents, W. A. Threlfall, C. H. Martin,
II. H. Lincoln, T. McDonnell.

FINANCE DEPARTMENT. Ordinary Branch.

Ordinary Branch.
Secretary, The Hon Mr. H.F. Howard, C.I.E., I.C.S. Deputy Secretary, G. Rainy, I.C.S.
Under Secretary, A. A. L. Parsons, I.C.S.
Assistant Secretary, A. V. Alyar, B.A.
Registrar, E. W. Bakor, I.S.O.
Superintendente, M. H. Khan, G. W. C. Bradey,
G.J. Piper, C. N. Chakrabarty, V. K. Menon,
S. V. Alyar, B.A. B. I. Shah Vubammad

S. V. Alyar, B.A., B.L., Shah Muhammad. Comptroller and Auditor-General, Sir R. A.

Military Finance Branch.

Financial Adviser, Hon. Mr. G. B. H. Fell, O.L.E., L.C.S.

Military Accountant-General and ex-officio De-puty Financial Adviser, Col. B. W. Marlow, O.I.E., I.A. Deputy Financial Adviser, W. C. Ashmoro.

(On leave).

Officialing Deputy Financial Adviser, Major G. B. Peacock, I.A.

Additional Deputy Financial Adviser, E. Burdon. 1.0.8.

Assistant Financial Adriser, W. D. Gray. Registrar, W. C. Gleeson.

Superintendents, G. E. Hodges, G. M. Turner, A. W. Schönemann. F. J. Woolmer.

FOREIGN DIPARTMENT. Comptroller and Auditor-General, Sir R. A. Political Secretary, Sir J. B. Wood, K.C.I.E. Gamble.

Controller of Currency, M. M. S. Gubbay, C.I.L., Foreign Secretary, Sir A. H. Grant, K.O.J.E. Officialing Controller of Currency, E. M. Cook, Deputy Secretaries, O. C. Watson, Officialing Lo.S. (Foreign) Major W. G. Neale, I.C.S.

11

Under Secretary, R. H. Maconschly, LF % Assistant Secretary, Offig. T. O. B. Waugh, Attache, Khan Bahador Marla Patich.

Allador, Man Baindor Mann Far a.

Resident offic C. W. Richard E.

Olfa Impricts General I. I. Ross.

Richard Science I. I. Ross.

Richard Science II. I. Ross.

Richard Richard Science II. Ross.

Richard R

Deputy Sceretary, S. R. Hignell, LC.

Secretary, Sir E. S. Maclagan, K.C.L.E., C.S.L.

Lauration if Commissioner with the Government of Indla, H. Sharp, o t. r. Senior Arsistant Secretary, Unnwar Maharal :

Singh.

Curator, Rureau of Elization, G. R. Kare, Chemist, W. A. K. Chibile, PAC, Ph.D. P.E.A.9.

LEGISLATIVE DEPARTMENT. Secretary, A. P. Muddlman, C.I.E. Deputy Secretary, H. Monerieff andthe Attache, F. G. Rowlind Attache, F. G. Rowlind Legal Acet., S. C. Gupta, Registrar, C. H. F. Per im. Superintendents, A. J., Paneri and Brandon.

Serriary, Horbit Lt. Green! Str W. R. Biol-wood, C.B., K.C.S.I., C.L.T., D.S.O. Serriary, Sub. pro len., Major-Green! A. H.

Bingley. Deputy Secretary, sub. pro tom., Lt. Col. A. H. O.

Staute.

Assist, Secretaries, Major G. D. Ozilvic, Major A. W. Chitty and A. A. Wh. 1 m.
Registrar, Mr. H. Tharlo Hughes,
Superintendents, W. O. Debenham, A. B.
Kunning, P. P. Hypher, Bat Sahib S. C.
Biswas and J. C. R. Leshi.
PODIIO WORKS DEPARTMENT.

Secretary, The Hon, F. C. Rose, Deputy Secretary, A. J. R. Hope

Hope, Givler Secretary, D. G. Harris.

Secretary, Hon. C. E. Iow, C.I.F., 1.C.s. Deputy Secretary, A. H. Loy, 1.0.5. Under Secretaries, L. D. Elliott, 1.0.5., and G. S.

Hardy, I.C.S.
Advant, H. G. W. Melkle.
Controller of Patents and Designs, H.G. Graves.
Attachs, L. D. O. Elliott, I.G.R.

Superletendents, A. W. Fart at, D. D. Britany, & N. Pitaril, C. H. Peliter, Latch D. D. D. O'Sullivan, E.D. Bessell and P. Wood Federa.

Secretary, Mon. Sir Janua du Budey, R.O.F., Diecetre-General of Ports & Telegraphe, Mrs. vir

W. Maxwell, Rolley, MA.O. Rominium India Safr Berrsur.

Correlationer, M. derly, A. N.

Profes Secretary, G. M. Young, LCZ.
Registrar, G. P. Winn.
Superintendente, A. S. Lawrence, H. C. May In.
P. K. Basu, Biffy Kildina Banery, Remysl
Mohan Gangull and U. C. Shuirt.
Edweatide Department.

Commissioner, Mobile, A. N.
Inductioner, Mobile, A. N.
Inductioner, Mobile of the first desired Department of Calle Steamer "Patitle Stewart," F. W. Loan-and.

SIMITY DEPARTMENT. Suren referred of Ichia, Cid. Str 8, 9.

Britaid, E.C. L. E.E. Giorgaica Brains.

Astitiant Scritting, G. Anderson, M.A.

Superintendente, M. N. Chakratouti, L. D.

Superintendente, M. N. Chakratouti, L. D.

Superintendente, ff. Vr. don't need from R.G. v. 16,60°, 17,60°S.

Box essect Survey.

Director, Major A. F. Garry, M.P., Lot., ; Economic Estanti, M. G. Carter, M.P. And Economic Estanti, Mostar, F. R. Paraell; Economic Estanti, Bucker, W. Burn, P.C.; Le analog Battout, United Privinces, H. M. Leabe, RA, FJ.S.

ARCHIOLOGICAL STRVET. Direct in-General of Archamleys, Sit J. H. Marshall, MA, CLY, Operating District George, D. E. Sponger, PA, FLB; Superintendert, Western Sporting, D. R., Waltedarkar, M. A.; Superarts, der.; Smittern Crele, A. H. Londartst; Superartended, Eastern Crele, C. Burnballst Superartendents, Northern Citele, J. P. Bakhston; H. Hargicaker; Superinter lent, Burno, C. Durof elle , Superintendent, Promiter Circle, Sir M. A. Stein, R.C.L.E., Ph.D., D.Litt., D.St., MISCRILANIOUS APPOINTMENTS,

Director-General, Indian Medical Service, Col. Lidwards, I. M. S.

Sanitary Commissiones with the Government of India, 1t. Col. W. W. Clementon, Deputy Director-General, Indian Medical Ser-

rior, Bt. Col. H. F. Cleveland, V.R.S., I.R.S., Arett, D. G. I.M.S., Major R. A. Nordham, Axett, Director General, Indian Medical Service

Artil. Director General, Indian Methon Service Superintendents, W. G. Dollman, W. I. Tilden, R. R. Reaks, H. M. Marchant, A. Hyde, and Rai Salieb H. N. Dass.
Inspr. Goul. of Irrigat, T. R. J. Ward, C.I.E., M.N.O.
Consp. Achd., J. Begg, F.E.LB.A.
Elect. Adviser, J. W. Meares, F.E.A.S., M.L.C.E., M.L.E., Committee and Industry Department.

Committee and Industry Department.

Committee and Industry Department.

Karauli, Major S. R. Christophers, Superintendent, X-ray Institute, Dehra Dun, Major A. E. Walter, 1348.

Director, King Institute of Preventive Medicine; F. M. Gibson, M.B., B.S. Asst. Director, King Institute of Preventica Medicine, Major W. S. Patton, M.B., I.M.R.

Director-General of Indian Observatories, G. T. Lord Ellenborough, P.C. (c) ! Lord Ellenborough, P.C. (c) ... 28 Feb. 1842 ! William Wilberforce Bird (offg.) 15 June 1844 Walker, O.S.I., M.A., D.Sc., P.R.S. Impe---"mpson, p.se.; The Right Hon. Sir Henry Hardinge, C. V Direc 0.c.B. (d) ..23 July 1814 · Observatories, The Larl of Dalhousle, P.c. (e) . . 12 Jan 1818 J. Evershed.

J. Evershed.

Viscount Canning, r.c. (f)

1.20 Feb. 1850

Director, Eombay and Alibagh Observatories, (a) Afterwards (by creation) Baron Metealfe,

Eombay, N. A. F. Moos.

(b) Created Earl of Auckland, 21 Dec., 1830.

Director, Aerological Observatory, Agra, J. H. (c) Afterwards (by creation) Earl of Ellenborough. Held, M.A. Secretary, Board of Examiners, Capt. C. L. (d) Created Viscount Hardinge, 2 May, 1846.
Peart, I.A. (e) Created Marguess of Dalhousic, 25 Aug, 1840. Peart, I.A. Oficer in Charge of the Records of the Govern-ment of India, A. F. Scholfield, M. A., (1997.) Librarian, Imperial Library, Calcutta, J. A. (f) Afterwards (by creation) Earl Canning. be the direct Head of the Bengal Government from the 1st May, 1854, when the first Lleute-nant-Governor assumed office. On 1st April, Chapman. Agricultural Advicer and Director of the Agricultural Research Institute, Pura, B. Co-1912, Bengal was placed under a separate Governor and the appointment of Lieutenantrentry, C.I.E. Director, Zoological Surecy of India, Indian Governor was abolished. Museum, Y. Annandala, B.A., D.Sc. Curator, Industrial Section of Indian Museum, VICEROYS AND GOVERNORS. GENERAL OF INDIA. D. Hooper, F.C.S., F.L.S. Chief Inspector of Mines, G. F. Adams. Assumed Name. charge Controller of Printing, Stationery and Stamps, of office. M. J. Cogswell. Viscount Canning, P.C. (a) .. 1 Nov. 1858 Superintendent of Government Printing, J. J. The Earl of Eigin and Kincardine, K.T., G.C.B., P.C. Major-General Sir 12 March 1862 McIkle. Chief Inspector of Explosives, Lleut.-Col. C. A. Robert Napier, Musprait-Williams, R.A.
Administrator-General of Bengal, H. T. Hyde,
Director, Criminal Intelligence, Sir C. R. Cleve-K.C.B. (b) (offg.) ..21 Nov. 1863 Colonel Denison, K.C.B. (offg.) . . . 2 Dec The Right Hon. Sir John Lawrence, .. 2 Dec. 1863 land, K.C.I.E. Bart., G.C.B., K.C.S.L (c) .. 12 Jan. 1864 Director-General of Commercial Intelligence, The Earl of Mayo, K.P. .. 12 Jan. 1869 IL A. F. Lindsny, I.C.S .. 9 Feb. 1872 Director of Statuties, G. F. Shirras. John Strachey (d) (offg.) Lord Napler of Merchistoun, K. T. (e) (offg.) .23 Feb. 1872 Lord Northbrook, P.G. (f) .3 May 1872 Lord Lytton, G.C.B. (g) . .12 Apl. 1876 Customs and Excise Chemist, R. L. Jenks. GOVERNORS-GENERAL OF FORT WILLIAM IN BENGAL. Arsumed The Marquess of Ripon, E.C., P.O. 8 June 1880 charge of office. The Earl of Dufferin, E.P., G.C.B., G.C.M.O., P.C. (h) ..13 Dec. 1884 Warren Hastings .. 20 Oct. 1774 Sir John Machpherson, Bart. . . 8 Feb. 1785 Larl Cornwallis, K.G. (a) 12 S.p. 1786 Lansdowne, 6. 0. ...10 Dec. 1888 The Marquess of M. G. The Earl of Elgin and Kincardine, P. O. 27 Jan. 1804 Baron Curzon of Kedleston, P. C. 6 Jan. 1809 Sir John Shore, Bart. (b) Lieut.-General the He . 28 Oct 1793 Hon. Sir Alured 17 March 1798 Clarke, R.C.B. (offg.) . . 17 March 1798 The Earl of Mornington, P.C. (c) 18 May 1703 30 Apl. 1904 Baron Ampthill (offg.) .. Baron Curzon of Kedleston, P.C. (1)18 Dec. 1904 Sir George H. Barlow, Bart. .. 10 Oct. 1803 Baron Hardinge of Penshurst, P.C., G.C.B., G.C.N.G., G.C.V.O., 1.8.0(j) 23 Nov. 1910 Lord Minto, p.o. (d) ... 31 July 1807 The Earl of Moira, K.o., p.c. (e) .. 4 Oct. 1813 Lord Cholmsford ... Apl. 1916 (a) Created Earl Canning, 21 May 1859. (b) Afterwards (by creation) Baron Napier (of .. 13 Jan. 1823 John Adam (offg.) William Butterworth Bayley (offg.) 1 Aug. 1823
William Butterworth Bayley (offg.) 13 Mar. 1828
Lord William Cavendish Bentinek, Magdala). (c) Afterwards (by creation) Baron Lawrence.(d) Afterwards Sir John Strachey, G.C.S.I. C.Lr. G.C.B., G.C.H., P.O. . 4 July 1828 G.C.B., O.C.H., P.O.

(a) Created Marquess Cornwallis, 15 Aug. 1792

(b) Afterwards (by creation) Baron Telgomouth.

(c) Created Marquess Wellegley, 2 Dec., 1799.

(d) Created Earl of Mioto, 24 Feb., 1813.

(c) Created Marquess of Hastings, 2 Dec., 1816. (e) Afterwards (by creation) Baron Napier of Ettrick. (f) Afterwards (by creation) Earl of Northbrook. (g) Created Earl of Lytton, 28 April, 1880. (f) Created Earl Amberst, 2 Dec., 1826. GOVERNORS-GENERAL OF INDIA. (h) Created Marquis of Dufferin and Ava; 12 Nov. 1883. Assumed (i) Created an Earl June 1911 Name. charge (j) During tenure of office, the Viceroy is Grand Master and First and Principal Knight of of office. Lord William Cavendish Bentinck, the two Indian Orders (G.M.S.L., and G.M.L.E.).
On quitting office, he becomes G.O.S.L. and
G.C.I.E., with the date of his assumption
of the Viceroyalty Bart. (a)

G.C.B., G.C.H., P.C.

Charles

Metcalfe,

Lord Auckland, G.C.B., P.C. (b) 4 March 1836

20 March 1835

Control over Legislation.

The legislative powers of the Imperial Legislative Council are still regulated by the Act of 1861. Certain Acts of Parliament under which the Government of India is constituted cannot be touched and no law can be made affecting the authority of Parliament or alle-giance to the Crown. With these exceptions the legislative powers of the Governor-Generalin-Council over the whole of the British India are unrestricted. Measures affecting the pub-lic debt, or the revenues of India, the religion of any of His Majesty's subjects, the discipline or maintenance of the military or naval forces and the relations of the Government with force of law for sk months, forcem states cannot be introduced by any member without the previous sanction of the Lordella Governor-General. Every Act and the relations of the Lordella Governor-General can, on his council, make Ordinances which have the force of law for skx months.

Governor-General's assent. The assent of the Crown is not necessary to the validity of an Act, but the Crown can disallow any Act that has been passed.

Apart from these legislative powers the Governor-General-in-Council is authorised to make, without calling in the Additional Members, regulations having the force of law for the less advanced parts of the country, where a system of administration simpler than

A .- Elected Members.

(Not to be less than 27.)

Se- rial { No.	Name.	Electorate.
1 2	Rao Bahadur Narasimheswara Sarma Garu Mr. Srinivasa Sastri	Do. do
3	Sir Ibrahim Rabimtoola, Kt., C.I.E	Do. Bombay,
4 5	Sir Dinsha Eduljee Wacha Babu Bhupendra Nath Basu	Do. do. Do. Bengal.
6	Rai Sita Nath Ray Bahadur Dr. Tej Bahadur Sapru	Do. do. Do. United
8	Pandit Madan Mohan Malayiya	Do. Provinces.
. 0	Sardar Baliadur Sardar Sundar Singh Maji-,	Do. Punjab.
10	Maung Bah Too, C.I.E.	Do. Burms.
11 12		Do. Bihar and Oriesa. Do. Assam.
13	Mr. M. B. Dadabhoy	District Councils and Municipal Committees Central Provinces.
14	Mr. K., Rangaswami Ayyangar	Landholders, Madras.
	Klian Bahadur Sayad Allahandoshah	Do. Bombay. (Sardars of Gujarat.)
16	Maharaja Sir Manindra Chanden Nandi of	Landholders, Bengal.
17	Raja Sir Rampal Singh, K.C.I.E.	Do. United Provinces.
18 19 20	Raja Rajend a Karayan Bhanja Deo 'Rai Bahadur Bishan Dutt Shukul Klian Bahadur Mir Asad Ali Khan	Do. Bihar and Orissa. Do. Central Provinces. Muhammadan Community, Madras.
22	Mr. Mahomed All Jinnah Mr. Abdur Rahim Khan Bahadur Nawab Salyid Nawab All	Do. Rombay. Do. Dengal. Do. do.
24	Chaudhurf Raja Sir Muhammad Ali Muhammad Khan, K.C.I.E., Khan Bahadur, ol Mahmudabad.	Do. United Provinces.
	Mr. Mazharul Haque	Do. Bihar and Orissa. Bengal Chamber of Commerce.
2	Mr. Malcolth N. Hogg	Bombay Chamber of Commerce.

B.—Nominated Members. (Not to exceed \$3.)

Serial No.	Name.	**	Province or body represented.	_
45 67 6 10 112 12 14 15 6 17 15 9 9 8 9	(c) Official Members. No. receillan 28. Mr. M. E. Couchman . Mr. F. J. Monaban Mr. C. A. Kincald, c.v.o. Mr. E. H. C. Waish Sir Vermy Lovett, K.C.S.J. Mr. C. H. Atkins Li. Col. S. L. Aplin, c.S.J. Sir J. Walker, K.C.L.L. Mr. W. J. Ee'id Sir J. S. Donnid, K.C.L.L Mr. W. J. Ee'id Sir J. S. Donnid, K.C.L.L Sir J. B. Wood, C.S.J Sir William Maxwell, K.C.L.E Sir William Maxwell, K.C.L.E Sir E. D. Machgan, K.C.L.E Sir E. D. Machgan, K.C.L.E Sir E. D. Machgan, K.C.L.E Sir R. A. Gamble Mr. C. E. Low C.L.E. Sir R. W. Gillan, E.C.S.J. Sir A. H. Grant, C.S.I. c.L.E. Mr. G. B. H. F.H. C.L.E. Mr. G. B. H. F.H. C.L.E. Mr. G. B. H. F.H. C.L.E.	0	Do, Do, Do, Do, Do,	-
50 ST 12 ST	Mr. G. B. H. Fell. C.E. Major-Goneral A. H. Bingly, C.D. Mr. H. F. Howart, C.E. Sir James BuBoulay	, C.I.E	The Control of the Co	
10004	(b) NON-OFFICIAL MEMI- Sir Fazulphoy Curdin Phoy, Kt., C Ehan Baha dur Mian Muhamumd S Khun Zulilimr All Khun, C.S.I. SubMajor and Hon. Capt. Sardar Bahadur. Sir G M, Chimavis	EES. J.E. Mr.2, C.I.E. Ajablihan,	Indian Commential Community, Molanmadan Community, Purjab, Landholders, Punjab.	
		stitution '	of the Council.	•
clared	by the provise to Regulation I for the that it shall not be lawful for the G the majority of all the Members of the majority of all the Members of the majority of the Members of the majority of the Members of the majority	overnor-Gen the Council	re Council of the Governor-General it is do neval to nominate so many non-official person shall be non-officials.	Ē
•	(a) Members of the Executive Con (b) The Lieutenant-Governor or C (c) Nominated Members	hi f Commi	issioner of the Province (1)	1
Non-	Officials (2)— (a) Elected Members (b) Nominated Members			
tions	The Indian Councils Act, 1881, secti	te Additions on 10, provi	il Members. ides that not less than one-half of the Addi	3
ls ក	high the Council may for the time h (Present number of Additional Mem exclusive of the Lieutenant-Gover or Chief Commissioner (1) as afore	einc be assented to the control of t	is the commission of the Province (I embled) shall be non-officials, lals (nominated)	ì

(For work of Imporial Legislatice Council, Section 1913-16, q. v.)

The Home Government.

The Home Government of India represents years, and this term may, for special trasons the guidal evolution of the poverning board of public advantage, which must be laid before of the old Last India Company. The states Parliament, he extended for five years more, of the Company with originally managed by the Court of Directors and the General Court recived or resided in India for at least ten of Proprietors. In 1781 Parliam at established years, and who have not left India more than a Board of Control, with full power and author discrete their appointment. Several rity to central and direct all operations and of them have usually belonged to the Indian experiment, and revenues of India. By despense of provinces or members of the Vicerov's crees the number of the Board was reduced and its powers were excrebed by the President, the limit precursor of the Secretary of State for India. With modifications this syriem lasted until 1858, when the Mutiny, followed by the ac uniption of the Government of India by the Crown, demanded a complete change. Under the Act of 1858 (row merged in the consolidating measure passed in 1915; the Secretary op State is the constitutional advicer of the Crown on all matters minting to India. He inherits generally all the powers and duties which were formerly vested sither in the Board of Control, or in the Company, the Directors and the Secret Committee in respect of the Government and revenues of India. He the power of giving orders to every officer in India, including the Governor-General, and is in charge of all business relating to India which is transacted in the United Kingdom.

Secretary of State's Powers.

Of these wide powers and duties many rest on his personal responsibility; others can be performed only in consultation with his Council, and for some of these the concurrence of a majority of the members of his Council is required. The Secretary of State may act without con-rulting the Council in all matters where he is not expressly required by statute to act as "Secretary of State in Council." Appointments by the Crown are made on his advice. Every official communication proposed to be sent to India must be laid before Council, unless it falls under either of two reserved clarses. One of these is "Secret communications" dealing chiefly with war and peace, relations with foreign Powers and Native States. The others are those which he may deem "urgent." No matter for which the concurrence of a majority of Council is necessary can be treated as either "secret" or "urgent." In ordinary business, for which the concurrence of a majority of Council is not required, the Secretary of State is not bound to follow the advice of the Council. These provisions reserve to the Secretary of State a wide discretionary power of interference with the Government of India which is exercised in accordance with the temperament of the Secretary of State for the time being. But in all matters of finance, the authority is that of the Secretary of State and the Council and is freely exercised.

The Council.

The Council of India originally consisted of fifteen members appointed by the Secretary of State. By an Act passed in 1907 it now consists of such number of members, not being less than ten or more than fourteen, as the Secretary of State may from time to time determine. The members hold office for geven

Executive Council; others are soldlers, educatienists, bankers, or men of diplomatic, official, or mercantile experience. The object aimed at in the constitution of the Council is to give the Secretary of State, who has little knowledge of the details of the Indian administration, the help of a body of experts. In 1997, in connection with the policy of constitutional reform, two Indians, one a Hindu and the other a Mahomedan, were appointed to vacancies in the Cou ell. La t year Mr. Chamberlain raised the number to three—two Hindus and a Mahomedan.

The India Office.

Associated with the Secretary of State and the India Council is a secretariat known as the India Office, housed at Whitehall. The Secretary of State has two Under-Secretaries, one permanent, the other parliamentary, and there are now two assistant Under-Secretaries. Appointments to the establishment are made by the Secretary of State in Council, but "junior eltuations" must be filled in accordance with the general regulations governing admission to the Home Civil Service.

The whole cost of the India Office is borne by the revenues of India, though the Home Government makes certain grants as d remissions in tieu of a direct contribution amount-£50,000 a year. The total net cost, including pencions is about £250,000 per annum.

Secretary of State.

The Right Hon. Edwin S. Montagu, M.P.

Under-Secretaries of State.

Sir Thomas W. Holderness, C.C.D., K.C.S.J. The Right Hon. Lord Islington, C.C.H.G., D.S.O.

Assistant Under-Secretaries of State. Sir Lionel Abrahams, E.C.D. Sir Arthur Hirtzel, K.O.B.

Council.

Laurence Currie (retires 12th July 1918), Sir William Duke, E.C.S.I., K.C.I.E. Sir Charles Arnold White. Sir Murray Hammick, K.C.S.I., C.I.E. Sir Charles S. Bayley, O.O.I.E., K.C.S.I., I.S.O. William Didsbury Sheppard, C.I.E. Sir Marshall Frederick Reld, C.I.E. General Sir E. G. Barrow, G C.B., C.C.S.I. James Bennett Brunyate, C.S.I., C.I.E. Sahibrada Aftab Ahmed Khan. Sir Prabliashankar D. Pattani, K.C.I.E. Bhupendranath Basu. Clerk of the Council, Sir Lionel Abrahams,

R.C.B.
Deputy Clerk of the Council, James H. Seabrooke, C.I.E.

20 , Inc Home G	occiminate.	
Private Secretary to the Secretary of State, C.H.	Consulting Engineer, Sir A. M. Bendel, K.o. Stockhooker, Homose Hubert Scott.	L.L.E.
	Audilor, H. A. Cooper.	
Political ADC. to the Secretary of State, LieutCol. Sir J. R. Dunlop Smith, K.C.S.L.,	Secretaries of State for India.	
E.C.T.O., CLE.	Amur	
Private Secretary to Sir T. W. Holderners, B. H. A. Carter.	Lord Stanley, P.C. (2)	
Private Secretary to Lord Islandon, R. H. A., Carter,	Ford de Gram and Dinam and Advanced	
1	Viscount Cranborne (a) 180	
Correspondence Departments.	The Bight Hon. Sir Stafford North-	• •
SECRETARIES.	cole Bart. (e)	67
Financial, W. Robinson and F. H. Lums, C.R.	The Dake of Argyll, K.T., P.C 189	58
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Miller, Major-General Sir Herbirt V. Con, R.C.M.G., C.B., C.S.L., and J. H. Scabrook, C.L.E.	The Right Hon. Gatherne Hardy, P.C.:	74
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Director-in-Chief of the Indo-European Tele- graph, Public Works Department, B. C. Bar-	Lord Bandolph Churchill, P.C. 188	35
graph, Public Works Department, B. C. Bar- ker, CLE.	The Earl of Kimberley, E.G.; P.C. (2nd time)	58
ACCOUNTANT-GENERAL'S DEPARTMENT:-	The Right Hon. Sir Richard Assheton Cross, G.C.B., P.C., created Viscount Cross, 19 Aug., 1886 188	
Account mi-General, Walter Badcek, C.S.L. also Director of Funds and Official Agent to	Cross, 19 Acq, 1886 188	3
Administrators-General in India.	The Earl of Kimberiey, E.S., P.C. (3rd time)	
STORE-DEPARTMENT INDIA OFFICE BRANCH:- Director-General, George H. Collier.	The Eight Hon. H. H. Fowler (%) 189	
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INDIA STORE DEPOT, Belvedere Roed, Lembers, S. E. Superintendent, Captain G. T. Wingfield, R. N.	The Right Hon. St. John Brodrick (i) 190 The Eight Hon. John Morley, 0.24 (j). 190	
REGISTEY AND RECOED DEPARTMENTEX-	The Right Hon. The Earl of Crews.	
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Miscellaneous Appointments.	the minnt hon. The Earl of Crewe,	
Goremment Director of Rudway Companies, Sir H. P. Burt, E.C.L.E.	The Right Hon. Auster Chambelain,	
Lürzrim, Fredk. W. Thomas, R.A.	In Right Hon. E. S. Moriage, V.P. 101	7
Educational Address for Indian Students, T. W. Amold, C.L.E., Litt. D., M.A.	(a) Alternands (by succession) Earl of Der	by.
Level Addition to Indian St. Jents in London, Mr. N. C. Sm (21, Cromwell Ed., S.W. 7).	(b) 5 (by creation) Visco.	
Perilers of Medical Board for the Estationation of Office of the Indian Security and the Indian Security and Indian	(c) = (by creation) Marquess Ripon.	cī.
Provided of Medical Board for the Examination of Officer of the Indian Serves and Advisor to the Sandony of State on Medical restores, Surg-Gen. Sir R. H. Charles, 6,0,000, R.D.	(d) # (by succession) Marque of Sallisbury.	200
Boord, LeCol. J. Anderson, M.B., L.M.S. (redd.)	(c) # (cy creation) Earl iddesisiph	e:
Legal Alcium and Solicitm to Secretary of State, Sir Edward Chamier,	(I) H (by creation) Earl Cranbro	ck.
Inspector of Müllery Epsigment and Classing, Major-Gen. Str John Steevens, E.C.E.	(by succession) Duke Descriptive	of
Syrreger and Clerk of the Works, E. H. Whing,	(i) % (by creation) Viscot Welverhampton, o.c.e.t. (i) % (by excession) Viscot	æt
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OF the of the Indian and	(1) 7 (by creation) Viscon	.Y.
Office Colonels A. P. Harris, S. D. Gordon, and Lieut, Colonel Paddon.	(b) ii (by creation) Varquess Crewe, E.Q.	c:

India Council Bill.

In July 1913 Lord Crewe, Secretary of State | for such term and on such conditions, and shall for India, outlined in the House of Lords certain Hear for the reform of the India Council. purport of these changes was to reduce the numferof the Council, and to an attract of epistments, with certain independent powers, for the Committees which discharge the detailed work of the Council. Nothing more was heard of this relience until Jone 1914, when there was published the text of the amending Bill, with an explanatory memorandum thereon.

Text of the Bill, .

Appended is the full text of the Bill :-

1.-(I) The Council of Indla constituted under the Government of India Act, 1858 (which Act as amended by any subsequent enertment is hereinafter referred to as the principal. Act), shall consist of such number of members, not less than seven nor more than ten, as the Secretary of State may from time to time determine.

2) Unless at the time when an appointment is made to fill a vacancy in the Council two at least of the then existing members of the Council were at the time of their appointment demicied in India, the person appointed to fill the vacancy must be domiciled in India, and unless at such time as aforesaid six at least of the then existing members were at time of their appointment either domiciled in India or were persons who had served or resided in India for at least ten years and had not ceased so to serve or reside more than five years before the date of their appointment, the person appointed to fill the vacancy must be either demiciled in India, or must have served or resided in India for at least ten years and have not ceased so to serve or reside more than five years before the date of his appointment.

The person appointed to fill a vacancy for which a person domiciled in India is alone eligible shall be relected from amongst the persons whose names appear on a list of persons domiciled in India chosen for the purpose by the members (other than official members) of the Legisla-tive Councils of the Governor General, Governors, Licutenant Governors and Chief Commissioners, in such manner, subject to such conditions and restrictions, and in such number, as may be prescribed by regulations to be made by the Secretary of State in Council, or by directions issued by the Secretary of State

(3) The yearly salary to be paid to a member of the Council shall be one thousand two hundred pounds, provided that such members appointed after the commencement of this Act who at the date of their appointment shall be domiciled in India shall be paid an additional yearly allowance of six hundred pounds.

(4) Where the Secretary of State is of opinion that a person possessing special qualification as a financial expert should be appointed to be a member of the Council on special terms, he may, after recording in a minute to be laid before Parliament the special reasons for the appointment and the special terms on which the appointment is to be made, make the appointment, and the person so appointed shall, notwithstanding any-thing in the principal Act, or this Act, hold office

In respect thereof be entitled to such ralary and to such pension, and other rights and privileges (if any) as His Majesty may, by Orderin Council. In each case determine.

Provided that not more than one person appointe I under this provision shall be a member of the Council at the same time.

2.—(1) Notwithstanding anything in rection nineteen of the principal Act, it shall not be necessary for an order or communication sent to India or an order in the United Kingdom in relation to the government of India to be signed by a Secretary of State in such cases as the Secretary of State in Council may otherwise direct, but every such order and communication shall purport to be made by the Secretary of State in

(2) For section twenty of the principal Act (which relates to the powers of the Secretary of State to divide the Council into committees, and to regulate the transaction of business in Council) the following section shall be substituted :-

It shall be lawful for the Secretary of State in Council to make rules and orders for the transaction of business as regards the powers which under the principal Act are to be exercised by the Secretary of State in Council:

" Provided that any such rule or order, so far as it affects any matter or question in respect of which the concurrence of a majority at a meeting of the Council is required by this Act, shall not be valid unless made with the concurrence of a majority of the members of Council present at the meeting of Council at which the rule or order is passed."

(3) Such rules and orders as aforesaid may, notwithstanding anything in sections twenty-two, twenty-four, twenty-five, and twenty-six of the principal Act, provide, as respects such matters as may be specified in the rules and orders,-

(a) for enabling powers of the Secretary of State in Council to be exercised otherwise than at a meeting of the Council, and where necessary for that purpose, for dis-pensing with any requirement of the principal Act as to the occurrence of the majority of votes of members of Council;

(b) for dispensing with the necessity of submitting to Council or depositing in the Council Room for the perusal of members, orders and communications proposed to be sent to India or to be made in the United Kingdom by the Secretary of State, and of recording and notifying to members of Council the grounds on which any order or communication to India has been treated as urgent.

(4) At a meeting of the Council the quorum shall be three, and meetings of the Council shall be convened and held when and as the Secretary of State may from time to time direct.

(5) Any document required by the principal Act to be signed by two or more members of the Council, oither with or without the counter-signature of the Secretary of State, or one of his Under Secretaries or Assistant Under Secretaries orders made by the Secretary of State in Council for the transaction of business in his Council may prescribe, and any such document, if signed in accordance with such rules and orders, shall be as valid as if it had been signed in accordance with the provisions of the principal Act.

(6) Section twenty-seven of the principal Act (which enables the Secretary of State to send certain secret orders without communicating them to the members of his Council) shall extend to any order, not being an order in respect of which concurrence of a majority at the meeting of the Council is required by the principal Act. which relates to any question gravely affecting the internal tranquillity of India, or the interests of India in any other country, or the peace or security of any part of His Majesty's Dominions, and which in the opinion of the Secretary of State is of the nature to require secrecy, and it is further declared that the said section shall apply to any order which the Secretary of State may send in reply to a despatch received and dealt with by him under section twenty-eight of the principal Act.

(7) All rules and orders made under this section shall be laid before Parliament as soon as; may be after they are made, and if an address is presented to His Majesty by either House of Parliament within the next subsequent thirty With days on which that House has sat after any such rule or order is laid before it praying that the rule or order may be annulled His Majesty in Council may annul the rule or order, and it shall henceforth be void but without prejudice to the validity of anything previously done thereunder.

The Bill Explained.

The publication of the Bill was accompanied by a memorandum explaining its provisions

the following terms:—
The object of this Bill is to amend the Government of India Act, 1858. The Act of 1858 in transferring the Government of India to the Crown, created the Council of India, defined its powers and those of the Secretary of State and prescribed in great detail the procedure to be followed in the transaction of business.

The Act of 1858 has, as regards the numerical strength of the Council and the conditions of office on it, been amended everal times. The procedure for the transaction of business is practically unaltered.

By the Act of 1858 the strength of the Council was fixed at fifteen members, of whom notices than nine were to be persons who at the time of appointment had served or resided in India for ten years and had not last left India more than The members were to hold office ten vests. during good behaviour, but were removable

fourteen, as the Secretary of State may from time to time determine. Nine members must be p trong who at the time of appointment had informing or consulting his Council. not last left India more than five years. The

may be signed in such manner as the rules and | Secretary of State may re-appoint a member for a further period of five years. The salary is £1,000 a year. Since 1907 it has been the recognised practice of the Secretary of State to reserve two appointments on the Council for Indians.

> The procedure for the transaction of business established by the Act of 1858 cannot be varied by rules. The powers of the Secretary of State in Council may be exercised only at meetings of the Council. A Council must be held every week and a quorum of five members is required. certain matters, however trivial in themselves, the sanction of a majority of votes at a meeting is required. In other matters the Secretary of State may act alone, but except in cases where secrecy or urgency can be claimed, his proposed order must lie a week on the Council Table before it is sent. The Act contemplates that all business before coming to the Council should be dealt with in Committee, and the Council is divided for this purpose into several Standing Committees.

> It is proposed by Clause 1 of the Bill to make certain changes in the strength and composition of the Council, and in the emoluments of the members. Also to take power to make rules for simplifying the business procedure of the

With a simplified procedure much of the unimportant work that now occupies the time of the Standing Committees and the Council would be disposed of by the Secretary of State in communication with and with the assistance of individual members, Committees being specially nominated by him when required. council of ten to fourteen members would then be needlessly large. It is proposed to fix the number at seven to ten, and to return to the rate of salary (£1,200 a year) allowed by the Act of

It is further proposed to convert the present practice of appointing two Indians to the Counell into a statutory requirement, to provide that they shall be chosen from names submitted by Indian Legislative Councils, and to grant to them an allowance of £000 a year in addition to salary, in view of the expense of residing out of their own country.

Provision is also made to enable the Secretary of State to appoint to the Council a financial member on special terms as tosalary, pension and tenure of office. The necessity for an exceptional power of this kind has been recognised by the Royal Commission on Indian Currency.

Clause 2 of the Bill provides for the simplification of business procedure. It enables the Secretary of State in Council to make rules to modify the procedure prescribed by the Act during 2001 Denavious, but were removable to the processor producting the processor of both Houses of Parlia, of 1858. The rules as and when made are to be ment. Their salary was fixed at £1,200 a year, laid before Parliament. The requirement of a weekly meeting of the Council is also dispensed with, and the quorum reduced. The opportunity of such analysis of the processor with a such as the processor. The Council now consists of such number of tunity is taken to enlarge in a way which exmember, not less than ten and not more than peri mee has shown to be desirable the category of cases which may be dealt with by the Secretary of State in his "Secret" Department without

On the motion of Lord Curzon the House of terms of office is limited to seven years but the Lerda rejected the Bill by 95 votes to Dr.

The Secretariat. Each Local Government works through a Secretariat, which is divided into various departments, each under a Secretary. In addition to the Secretaries, there are special departmental heads such as the Inspectors General of Police, Jails, and Registration: the Director of Public Instruction, the Inspector-General of Civil Hospitals or Surgeon-General, the of Civil Respitats or Surgeon-General, the Sanitary Commissioner and the Superintendent of the Civil Veterinary Department. There are also Chief Engineers for Public Works and Irrigation, who are likewise Secretaries to Government. In nearly all the Provinces except Bombay, the revenue departments are administered, under Government, by a Board of Revenue.

The District Officer. The administrative system is based on the repeated sub-division of territory, each administrative area being in the responsible charge of an officer who is subordinate to the officer next in rank above him. The most important of these units is the District, and India em-braces more than 250 Districts, with an average area of 4,430 square miles and an average population of 931,000. In Madras there is no local officer above the head of the District : elsewhere a Commissioner has the supervision of a Division comprising from four to six Dis-tricts. The head of a District is styled either the Collector and District Magistrate or the Deputy Commissioner. He is the representative of the Government and embodies the power of the State. He is concerned in the first place with the land and the land revenue. He has also charge of the local administration of the excise, income tax, stamp duty and other sources of revenue. As a Magistrate of the first class, he can imprison for two years and fine up to a thousand rupees. In practice he does not try many criminal cases, although he supervises the work of the other Magistrates in the District.

In addition to these two main departments, the Collector is interested in all matters pertaining to the welfare of the people. In some branches of the administration his functions. are, in consequence of the formation of special departments, such as those of Public Works, Forests, Julis, Sanitation, and Education less direct than was formerly the case. But even in matters dealt with by separate departments, his active co-operation and direction in counsel are needed. The Municipal Government of all considerable towns is vested in Municirallties but it is the duty of the Collector to guide and control their working. He is usually the Chairman of the District Board which, with the ald of subsidiary boards, maintains roads, schools and dispensaries, and carries out sani-

tary improvements in rural areas.

trict has its own law officer, styled the Government Pleader.

under Junior Officers of the Indian Civil Ser- Australia,

vice or members of the Provincial Service called Deputy Collectors. In Madras, Bombay and the United Provinces there are smaller sub-district units called taluks or tahslis, ad-ministered by tahsildars (Bombay Mamlatdars); with naib tahslidars or mahalkarris. tahsildar is assisted by subordinate officers, styled revenue inspectors or kanungos and the village officers. The most important of the latter are the headman who collects the revenue, the karnam, karkun or patwari who keeps the village accounts, and the chaukidar or village watchman.

Trend of Provincial Government. The relations of the Provincial administrations with the Government of India form the subject of incresant discussion. On the one side there are the strong centralisers who would focus all authority in the Government of India; on the others those stout advocates of provincial autonomy who would make the Local Governments virtually independent of the Government of India. The trend of Indian policy since the departure of Lord Curzon has been steadily in the direction of increasing the authority of the Provincial Governments and the control and interference of the Government of India has been materially reduced, especially in financi-al matters. There was a marked development of this policy adumbrated in the despatch of the Government of India which submitted to the Secretary of State the proposal to re-move the headquarters of the Government of India from Calcutta to Delhi. This paragraph thus indicated the ideas of the supreme authorialthough the extreme interpretation placed upon it by some Indian publicists had to be repudiated, it remains the most authoritative exposition of the trend of Indian policy.

The maintenance of British rule in India depends on the ultimate supremacy of the Governor-General in Council, and the Indian Counclis Act of 1909, itself bears testimony to the impossibility of allowing matters of vital con-cern to be decided by a majority of non-official Legislative Council. votes in the Imperial Nevertheless it is certain that, in the course of time, the just demands of Indians for a larger share in the government of the country will have to be satisfied, and the question will be how this devolution of power can be conceded without impairing the supreme authority of the Governor General in Council. The only possible solution of the difficulty would appear to be gradually to give the Provinces a larger measure of self-Government, until at last India would consist of a number of administrations, autonomous in all provincial affairs, with the Government of India above them all and possessing power to interiere in case of missovernment, but ordi-narily restricting their functions to matters of Imperial concern. In order that this consum-Other Officers,
Other important district officers are the Suprintendent of Police, who is responsible for the discipline and working of the police supreme Government should not be associated force, and the Civil Surgeon, who (except in 10mbay) is the head of the medical and sanitary administration. The local organisation of Government Public Works, Torests, Eduout opinion, materially facilitate the growth of cation and other special departments varies in different parts of the country. Each District has its own law officer, styled the Government should not be associated force, and the Government of India from Calcultain, therefore, a measure which will, in our opinion, materially facilitate the growth of Lie generally recognised that the capital of a trick has its own law officer, styled the Government should be separate great central Government should be separate and independent, and effect has been given to The Districts are split up into sub-divisions, this principle in the United States, Canada and

Administrative Divisions.

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The Bombay Presidency.

is so marked that it has long been known as the vator holds his land direct from Government Garden of India. South of Bombay City the under a moderate assessment, and his long as province is divided into two sections by the he pays this assessment he cannot be disposited the coast. Above Ghats are the Decean Districts, with a poor soll and an arid climate, Indus has brought abounding fertility.

The People.

The population varies as markedly as soil and climate. In Sind Mahomedans predominate. Gujarat has remained true to Hindul-m although long under the dominion of powerful Mahomedan kings. Here there is an amplitude of caste divisions, and a people, who although softened by prosperity, are amongst the keenest trading races in the world. The Deccan peasant has been seasoned by adversity; the saying goes that the Decean expects a famine one year in every three, and gets it; the population is much more homogeneous than in Gujarat, and thirty per cent, are Maintatas. The Karnatte is the land of the Lincayets, a Hindu reforming sect of the twelfth century, and in the Konkan there is a large proportion of Christians. Four main languages are spoken, Sindi, Gujarati, Marathi and Kanarese, with Urdu a rough lingur franca where English has not penetrated. The main castes and tribes number five hundred.

Industries.

The principal industry is agriculture, which supports fixty-four per cent. of the population. In Sind the solls are wholly alluvial, and under the influence of irrigation pro-duce yearly increasing crops of wheat and cotton. In Gularat they are of two classes, the black cotton soil, which yields the famous Brusch cottons, the finest in India, and alluvial which under careful cultivation in Ahmedabad and Kaira makes splendid garden land. The dominant soil characteri-tic of the Decean is black soil, which produces cotton, wheat, cram and millet, and in certain tracts rich erops of engar cane. The Konkan is a rice land, grown under the abundant rains of the submontane regions, and in the south the Dharwar cotton

west coast of Iudia, from Sind in the North to Ranan in the South. It embraces, with its upon the scasonal rainfall, supplemented by well irrigation. As chain of irrigation works, miles and a population of 27,084,317. Of this total 65,781 square miles are in Notive States, the region of unfailing rainfall in the Ghats, is with a population of 7,411,675. Geographic gradually b ing completed, and this will ultically included in the Presidency but under the matchy make the Deccan immune to serious Government of India is the first class Native drought. More than any other part of India: State of Baroda, with an area of 8,182 square the Presidency has been scounged by famine miles and a population of 2,032,703. The and plague during the past twenty years. The outlying post of Aden is under the jurisdiction of the Bombay Government: It has an area of the manufacture of the people more self-reliant, and the The Presidency embraces a wide diversity with a certain development of industry, has of soil, climate and people. In the Presidency induced a considerable rise in the standard of Proper are the rich plains of Gujarat, watered living. The land is held on what is known as by the Nerbudda and the Tapti, whose fertility the ryotwari tenure, that is to say, each culti-

Monufactures.

south of these come the Karnatic districts. On Whilst agriculture is the principal industry, the sea side of the Ghats is the Konkan, a rice others have no inconsiderable place. The rowing tract, intercepted by creeks which mineral wealth of the Presidency is small, make communication difficult. Then in the and is confined to building stone, salt exfar north is Sind, totally different from the tracted from the sea, and a little mangaper of the confined to building stone, salt exfar north is Sind, totally different from the tracted from the sea, and a little mangaper of the confined to building stone, salt exfar north is Sind, totally different from the state of the confined to building stone, salt exfar north is Sind, totally different from the state of the confined to building stone, salt exfar north is Sind, totally different from the state of the confined to building stone, salt exfar north is Sind, totally different from the state of the presidency is small, make communication difficult. Then in the and is confined to building stone, salt exfar north is Sind, totally different from the tracted from the sea, and a little mangaper of the salt of the sa coloured saris, and to a diminishing extent the exquisite kincobs of Ahmedabad and Surat-Bombay silver ware has a place of its own, as well as the brass work of Poona and Nasik. But the tendency is to submerge the indigenous handlerafts beneath industry organised on modern lines. Bombay is the great centre in India of the textile trade. This is chicily found in the headquarter city, Bombay, where the in-dustry embraces 29,94,367 spindles and 51,846 looms and employs 1,11,924 hands and consumes 3:,91,175 cwts. of cotton. This industry is now flourishing, and is steadily rising in effciency. In lieu of producing immense quantities of low grade yarn and cloth, chiefly for the China market, the Bombay mills now turn out printed and bleached goods of a quality which improves every year, and the principal market is at home. Whilst the industry centres in Bombay City, there are important ofshoots at Ahmedabad, Broach and Sholapur. In Ahmedabad, Broach and Sholapur. dabad there are 10.17.800 spindles and 21,503 looms; in Sholapur 2,37,839 spindles 3,730 looms; and in the Presidency 48,03,03 spindles and 85,388 looms. It is expected that the pro-perity of the Bombay trade will be quickened, as a project, now in operation, for the substitution of electricity for steamthe electricity is generated at a hydro-electric station in the Ghats, fifty miles distant-furnishes cheap and efficient power. Its situation on the western-sca-beard, in touch at once with the principal markets of India and the markets of the west, has given Bombay an immense sea-borne trade. The older ports Surat, Breach, Cambay and Mandvie, nere famous in the ancient days, and their bold and hardy mariners carried Indian commerce to the Persian Gulf and the coasts of Africa. But the opening of the Euez Canal and the increasing size of ocean steamers have tended to concervies with Breach as the best in India. There trate it in modern ports with deep water anchor-

Administration, The Presidency is administered by a Gover- all original suits lies to the High Court. por-in-Council. The Governor is appointed triet and Assistant Judges exercise criminal by the Crown, and is usually drawn from jurisdiction throughout the Presidency, but the ranks of those who have made their mark original criminal work is chiefly disposed of by in English public life. He is assisted by a the Executive District Officers. Capital sentences of three members, two of whom are teness are subject to confirmation by the High drawn from the Indian Civil Service, and the third Court. In some of the principal cities Special in practice is an Indian. Each Member takes specially adultances of the principal cities Special in practice is an Indian. Each Member takes specially adultances of the principal cities Special in practice is an Indian. cial charge of certain departments, and cases (Bombay has four Presidency Magistrates, as where differences of opinion occur, or of special well as Honorary Magistrates exercising the importance, are decided "in Council." All functions of English Justices of the Peace and papers relating to public service business reach a Court of Small Causes, corresponding to Government through the Secretariat, divided the English Country Courts. Into five main departments each under a Secretary (a) Revenue and Phanelal; (b) Political,
Judicial, and Special; (c) General, Educational,
Marine and Ecclesiastical; (d) Ordinary Public
Works; (c) Irrigation. The senior of the three local boards and municipalities, the former Civilian Secretaries is entitled the Chief Secre- exercising authority over a District or a Taluka, tary. The Government frequently moves, It and the latter over a city or town. These is in Bombay from November to the end of bodies are composed of members either March; at Mahableshwar from April to June; nominated by Government or elected by the in Poona from June to September; and at people, who are empowered to expend the funds Mahableshwar from October to November; at their disposal on education, sanitation, the manufeshwar from October to November; at their disposal on education, fanitation, the but the Secretariat is always in Bombay. Unconstruction of roads and tanks, and general der the Governor-in-Council the Pre-blency is improvements. Their funds are derived from administered by four Commissioners. The coses on the land revenue, the toil and ferry Commissioner in Sind has considerable independent powers. In the Pre-blency Proper to increase the elective and reduce the nominated there are Commissioners for the Northern clement, to allow these bodies to elect their Division, with headquarters at Ahmedabad; own chairmen, whilst large grants have been the Central Division at Poona; and the Sous-made from the general revenues for water supply them Division at Belmum. Each district is and drainage, under a Collector, usually a Covenanted Civisians.

Finance. as Assistant Collectors, and one or more Deputy Collectors. A collectorate contains on an average from eight to ten talukas, each provincial financial autonomy. Up to 1870 consisting of from one to two hundred villages whose whole revenues belong to the State. The village officers are the patel, who is the head of the village both for revenue and police. head of the village both for revenue and police | Broadly, certain heads of revenue are divided purpose: the talati or kulkarni, clerk and with the Imperial Government, whilst certain over each Taluka or group of village is the manlatdar, who is also a subordinate magistrate. The charge of the Assistant Deputy Collector contains three or four talukas. The Collector and Magistrate is over the whole The Commissioners exercise general control over the Districts in their Divisions. The control of the Government over the Native States of the Presidency is exercised through Political Agents.

Justice.

The administration of justice is entrusted the diffusion of Justice is entried of the High Court sitting in Bombay, and comprising a Chief Justice, who is a barister, and six pulsae judges, either Civillans, control of two Chief Engineers who act as Barristers, or Indian lawyers. In Sind the Secretaries to the Government; one for Court of the Judicia Commissioner (three General Works and the other for Irrigation

age, and the sca-borne trade of the Presidency | indees, one of whom must be a barrister) is the is now concentrated at Bombay and Karachi, although attempts are being made to develop Mermorae, in Portuguess territory, into an outlet for the trade of the Southern Mahratta Country. The Customs after so the basis The Court of the Subordinate Judge of the Customs after so the basis. The Court of first appeal is that of the District of varies show the trade of the Port of Bombay or Assistant Judge, or of a first class subordinated the Scar 1915-16 as Rs. 1901 cross nate judge with special powers. District and (231,841,630). The depast, as compared Assistant Judges are Indian Civilians, or membrated the previous year, exclusive of Government bers of the Provincial Service. In cases extransactions, was about Rs. 21 cross, or appeared by the previous year, exclusive of Government bers of the Provincial Service. In cases extransactions, was about Rs. 21 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 22 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 22 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 22 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 22 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 22 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 23 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 24 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 24 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 25 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 25 cross, or appeared by the Provincial Service. In cases extransactions, was about Rs. 25 cross, or appeared by the Provincial Service and the Provincial Service and the Subordinate of the Provincial Service and from the decision of the District Judge in

Local Government.

Finance.

growing heads of revenue, varying in each province, are allotted to the local Government. Thus in Bombay the land revenue, stamp revenue and revenue from assessed taxes are divided with the Government of India. All other local sources of revenue go intact to the local Government. The provincial Budget for 1916-17 shows an opening balance of Rs. 143 lakhs, revenue 751 lakhs, expenditure 754 lakhs and the closing balance Rs. 141 lakhs. These large These large balances are due to grants from the Imperial Governments for non-recurring expenditure.

Public Works.

"Under them are Superintending Engineers" In charge of divisions and Executive Engineers in charge of districts, with the Consulting Architect. The chief irrigation works are in Sind and consist of a chain of canals fed by the annual inundations from the Indus and one perennial canal the Jamrao. In the Presidency proper the principal protective works are the Nera Canal, Gokak Canal, Mutha Canal and the Godaveri Canal Scheme. In addition there is under construction a chain of protective irrigation works, originating in reservoirs in the Ghat regions. The first of these the Godavari Scheme, is now in operation, the Prayara Scheme and the Nim Scheme are progressing steadily. The Public Works budget for the current year is 77.5 laklis of rupees.

Police.

The Police Force is divided into three categories: District Police, Railway Police and the Bombay City Police. The District Police are under the Inspector-General who is either a member of the Gazetted Force or a Covenanted Civilian. Under him are the Deputy Inspector-Generals for Sind and the Northern and Southern Polyson of the Polyson of Southern Polyson of Sou Northern and Southern Ranges of the Presidency proper, for Railways and for Criminal Investigation. District Superintendents Police have charge of each Di-trict with a regular cadre comprising Assistant superinten-dents, Sub-Inspectors, Chief Con-tables and Constables. The Bombay City Police is a separate force maintained by Government mder a Commissioner who is responsible direct to Government. The Training School at Na-ik prepares young gazetted officers and the rank and file for their duties. The cost of the Police is 110 lakhs.

Education is imparted partly through direct Government agency, partly through the medium of grante-in-nid. Government maintain Arts Colleges at Bombay, Poona and Gujarat; the Grant Medical College, the Poona College of Science, the Agricultural College, Veterinary College, School of Art, Law School and a College of Commerce. A Science College in Bombay, is College in Bombay is now in course of construction. Also in Bombay City, and the headquarters of each district, a model secondary school. The other secondary schools are in private hands; the majority of the primary schools are maintained by District and Local schools are maintained by District and Local Boards with a grant-in-aid. The Bombay Municipality is responsible for primary education in Bombay City. There are now in the Presidency 7 Arts Colleges, 4,702 Scholars; 142 high Schools; 42,215, Scholars; 323 Mitdle Schools, 25,934 Scholars and 10,800 Primary Schools, 6,70,141 Scholars. The Government Educational Budgat is 72754 lakis. Educational Budget is 77.54 lakhs.

The Educational Department is administered by a Director, with an Inspector in each Divi-sion and a Deputy Inspector with Assistanta in each district. Higher education is conin each district. Higher education is controlled by the Bombay University (established in 1857) consisting of the Chancellor (the Governor of the Presidency), the Vice-Chancellor (appointed by Government for two years), and 110 Fellows of whom 10 are ex-officio; 10 elected by the Graduates, 10 by the Faculties, and 80 are nominated by the Chancellor.

The principal educational institutions are:

Governmen! Aris Colleger-

Bombay, Principal Elphinstone College, Covernton. Deccan College, Poona, Principal Mr. F. W.

Gujarat College, Ahmedabad, Principal the Rev. W. G. Robertson.

Dharwar College, Principal Mr. H. G. Rawlingon.

Private Arts Colleges-

St. Xaviers, Rombay (Society of Jews).
Principal Rev. Father Goodier.
Wilson College, Bombay (Scottish Mission).

Principal Rev. Dr. Mackichan.

Ferguson College, Poons (Decean Educa-tional Society), Principal the Hopbic

Mr R. P. Paranjpe.
Baroda College, Baroda (Basta
Principal Mr. Clarke, State),

Samaldas College, Bliavnagar (Bhavnagar State), Principal Mr. Unwalla.

Bahauddinblini College, Junagadh State, Principal Mr. Scott.

Special Colleges-

Grant Medical College, Bombay (Govern-ment), Principal Lt.-Col. Street, I.M.S. College of Science, Poona (Government) Principal Dr. Atlen.

Poona (Government), Agricultural College, Principal Dr. Harold Mann.

Chicle College, Rajkot, Principal Mr. Mayne. College of Science, Ahmedabad. Law School, Bombay, Principal, Mires MI

Aktar Khan. College of Commerce, Bombay, Principal,

Mr. P. Anstey. Veterinary College, Bombay, Mr. R. Howlett. Bombay Itacteriological Laboratory, Directo:

Major Liston, I. M.S.
Sir J. J. School of Art, Bombay (Government), Principal Mr. Cecil Burns.
Victoria Technical Institute, Bombay, Prin-

cipal Mr. T. Dawson.

Medical.

Medical Department is in charge The of the Surgeon-General and Sanitation of Sanitary Commissioner, both members of the Indian Medical Service. Civil Surgeons stationed at each di-trict headquarters are responsible for the medical work of the district, whilst sanitation is entrusted to one of the Deputy Sanitary Commissioners. Three large hospitals are maintained by the Government in Bombay, and well-acceptance beautiful Flist. in Bombay, and well-equipped hospitals exist in all important up-country stations. Over four million persons including 67,000 in-patients are treated annually. The Presidency contains 7 Lunatle Asylums and 18 institutions for the treatment of Lopers. Vaccination is carried out by a staff patient with the state of the carried out by a staff under the direction of the Sanitary Commissioner. Sanitary work has received an immense stimulus from the large crants made by the Government of India out of the oplum surpluses. The Budget is 27.88 lakhe.

Governor and President in Council.

His Excellency The Right Hon'ble Freeman Freeman-Thomas Baron Willingdon of Ratton, G.C.LE. Took his seat 5th April 1915.

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Collecter of Corlons, Bowley, F. W. Whitty. Consulting Amelical, G. W. Whitet.	Major-General Sir John Malcolm; G.C.B. 182 LieutGeneral Sir Thomas Sidney Beck. 183
	with, K.C.D.
GOVERNOES OF BOLIEAY.	Died, 15th January, 1831.
Sir Atraham Shipman 1852	John Remer (Officiating) IESI
Die on the bland of Anjedive in October 1884	The Earl of Clare 1531
Hamley Coulte	Sir Robert Grant, a.c.n 1521
Sir Gerras Lucas	Died. 9th July, 1808.
Di-1, 21st May, 1667.	James Farish (Officiating) 1535
Captain Meary Garry (Officiating) 1867	ion at Treater Calline's Dates
Nir George Oxenden 1663 Thed in Surat, 14th July, 1669.	Sir William Hay Macnaghton, Bart. (b)
Gerald Aungler 1663	Sir George Arthur, Bart., R.C.B 15C.
Died in Surat, 20th June, 1677.	Lestock Robert Reld (Officiating) 1845
appears are	. George Russell Clerk
Fir John Child, Bort 1681 Eartholomew Harris 1690	Viscourt Falkland
Filed in Sum:, 16th May, 1604.	Lord Elphinstone, G.C.S., P.C 1529
Parkel Annesky (Officiating) 1604	Sir George Russel Clerk, E.C.B. (2nd time) 15%
Sir John Gayer 1604	Sir Heary Bartle Edward Frere, K.C.D. 1855
Fir Nicholas Walte 1704	The Right Hon. William Robert Seymour 1577
William Ablable 170s	
Stephen Strutt (Officialing) 1713	
Charles Boone 1713	
William Phipps 172.	mindre and on the state and the state (and the state and t
Robert Cowan 172 Districted.	Hart., E.C.M.d.
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Andrew Raming (Of virting) 17:	Papan Williaman Corn
Majur-General William Medous 123	Timescar trained and desired as
Major-General Sir Robert Abstronally, 179	and then joined the Council of the figure.
General Black (Officiality)	The state of the usta det _ 170
John Grant (Officiality)	1 Ill Pice secondated Commerce of Comits in
Josephan Decembration 177	the ten sure that his hetered agentification
George Brown (Officiality) 15:	is the principle of the without the principle of the prin
His Erran Nepsan, Bart	the first of the first field than the
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whom must have cerved for ten years under the ; Crown in India, while the third, of whom official experience is not required, is in practice, but not of necesity, an Indian. Mauras administraof necessity, an Indian. Madras administra-tion differs, however, in some important res-pects from that of other major Provinces. There is no intermediate local authority between the Collector of the District and the authorities at headquarters, the Commissioner being unknown in Madras. Part of the power which would be reserved elsewhere for the Commissloper is given to the Collector, whose status is rather higher in Madras than elewhere, and part is exercised by the Board of Revenue, Each member of the Board of Revenue is in fact a Commissioner for specific subjects throughout the Presidency. This conducts to administration by specialists and to the maintenance of equal progress in specific matters in every part of the Presidency, but it leaves the Government without an official who can judge of the general administration of large parts of the country. For these and other reasons the Decentralisation Commission recommended that a system of Commissionerships be introduced in Madrae.

Finance.

According to the revised estimates for 1915-16 the Presidency's financial position was as follows in lakis of rupes;—Opening bilance, Rs. 110116; recipit, Rs. 763 96; exp. nditure Rs. 77192; the deficit being Rs. 7708.

Governor and President-in-Council.

His Excellency the Rt. Hon. Baron P ntland, G.C.I.E., P.C. Took his seal 39th October, 1912.

Personal Stuff.

Private Scoy., T. E. Moir, I.C.S.

Military Secy., Licut.-Col. R. G. Munn.

Aides-de-Camp, Capt. Lionel Meredith Peet, Lt. D. L. G. Carleton Smith, Commander A. S. Balfour.

Extra Aide-de-Camp, Lt., John Laton Monins. Indian Aide-de-Camp, Risaldar Major Mailk Shar Rahadur, Hon. Capt. Shaik Ismail Sirdar

Shor Rahadur, Hon. Capt. Shaik Ismail Sirdar Bahadur. Surgeon, Major Frederick Fenn Elwes, C.t.E.,

1.M.S.

Commandant of Body Guard, Captain Wigram |
Seymour Elliot Money. (On Active Service.)

Temporary Commandant, Captain G. B. Lie-whellin.

Members of Council.

Divan Bahadur P. Rajagopala Achariyar, c.i.e. Mr. Herbert Fancis Webb Gillman, c.s.i., i.c.s. Sir A. G. Card w. E. C. S.I., i.c.s.

Additional Members of Council Elected. Tiruvengada Ranga Achariyar.

Rev. G. Pittendrigh.

A. Suryanarayana Rao Pantulu.

M. Ramchandra Rao Pantulu.

A. Subba Krishna Rao Pentulu.

Pulamati Siva Rao.

A. Subbarayulu Reddiyar.

B. V. Aiyar Narasimba Aiyar,K. Sadasiya Blut.

V. K. Alyangar Ramanujachariyar.

Kelelmanwami Rama Alymague,

K. R. Venleda Krishna Rao Pantuln.

B. Raja Rajawara 8 impedit, Raja of Ranced Bangadraja Ventatapati Raju.

K. Cildimbirantha Medifficar.

K. K. Ramin Kayalippera Muppli Nayar.

Yaqub Hasaa, 84h b kahadur,

Ahm d Tambi Chulun Muhluddin MamUaya. C. H. Illeginbotham.

Gordon I'm er.

E. P. Burber.

Nordinatel.

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Malcolm Diward Couchman.

L. Divid-im, C.s.1.

L. E. Buckley, J. R. Store,

B. B. Clegg.

35, 35, 61°524,

S. B. Murry.

Colon-I William Montague IIIIIa, E.E.

Diwan Rahadur Raghunatha. Rao Rameban¹⁷² - Rao.

Surg.-Gen. W. B. Binnerman, C.S.L., M.D., LES. Arthur Rowland Knapp.

Klian Bahadur Muhammad Azir-ud-din Hussaln,

5 Scinivaca Ayyancar.

Sir Gholam Mohamad All.

The Most Rev. John Aslan.

T. Richmond.

Sir F. J. E. Spring, K.c.r.E.

Rao Biliidur S. C. Raminathin Chillipa Muthiyya Ci tti Annimidal Chilliyar. Rao Biliidur K. R. Suryanarayanamurti Yafe-

du Garu. Sri Sobia Chandra Singh Dec.

Charles George Todhunter,

SECRETARIES TO GOVERNMENT.

Chief Secretary to Government, A. Butterworth, I.C.S. (on bave).

Revenue, L. Davidson, O.S.I., L.C.S.: Adial Arthur Rowland Knapp.

Local and Manicipal, Education and Legislatic, R. A. Graham, i.e.s.

Public Works (General), Col. W. M. Ellis, E.L. Joint Secretary, S. B. Murray.

BOARD OF REVENUE.

First Member, R. B. Clogg.

Second Member, N. S. Brodie, M.A. Third Member, L. E. Burkley.

Fourth Member, James Perch Bedford.

MISCELLANEOUS APPOINTMENTS.

Commissioner of Recenue Settlement, etc., L. E.

Buckley, t.o.s.

Recense Survey Department, Director, D.

Hatchell.
Director of Public Instruction, J. H. Stone, C.I.L.

Vice-Chancellor of Madras University, Justice

Sir John Wallie.
Registrar of Madras University, F. Dewsbuff.

· 1 ne mante	as 1 restactions.	
Inspector-General of Police, P. L. Moore, C.I.E.,	Major-General William Medows 1790	
1.0,5,	Sir Charles Oakeley, Bart. 1700 Lord Hobart 1700	
Surgeon-General, Surgeon-General W. B. Bannerman, C.S.1.	Major-General George Harris (Acting) 1799	8
Accountant-General, A. Newmarch.	Lord Clive 1790 Lord William Cavendish Bentinck 1800	
Inspector-General of Prisone, Col. R. J. Macna-	William Petrie (Acting) 1807	7
mara, I.M.S. Postmaster-General, John Monteath.	Sir George Hilaro Barlow, Bart., K.D 1807 LieutGeneral the Hon. John Aber- 1813	
Officiating Collector of Customs, Percy Eccles.,	cromby.	,
D.A., I.C.	The Right Hon. Hugh Elliot 1814	1
Commissioner of Salt, Abkari, dc. Mr. C. G. Todhunter, 1.C.S.	Major-General Sir Thomas Munro, Bart., 1820 K.C.B.)
Inepedor-General of Registration, C. R. M. Schmidt,	Died, 6 July, 1827. Henry Sullivan Græme (Acting) 1827	7
President, Madras Corporation, P. L. Moore,	Stephen Rumbold Lushington 1827 LieutGeneral Sir Frederick Adam, K.C.B. 1832	
C.I.E.	George Edward Russell (Acting) 1837	
Director of the Kolaikanal and Madras Obser- vatories, J. Ever-hed.	Lord Elphinstone, G.C.H., P.C 1837	7
Supdi., Gort. Central Museum, and Principal Librarian, Connemara Public Library, J. B.	LicutGeneral the Marquess of Tweed- 1842 dale, K.T., c.D.	2
Hender on.	Henry Dickinson (Acting)	
Piericultural Expert, H. C. Wilson. Persian and Mindustani Translator to Govern-	Major-General the Right Hon, Str 1848 Henry Pottinger, Bart., G.C.B.	
ment, Major A. R. Nethersole, I.A.	Daniel Flight (Asting)	
Registrar of Co-operative Credit Societies, L. D.	Lord Harris 1854	
Swamikannu Pillai, Diwan Bahadur.	Sir Charles Edward Trevelyan, K.c.B 1850	
Director of Agriculture, D.T. Chadwick, I.C.S. Consulting Architect, W. H. Nicholis.	William Ambrose Morehead (Acting) 1860 Sir Henry George Ward, 6.6.31.6 1860	
Presidents and Governors of Fort	Died at Madras, 2 August, 1860.	
St. George in Madras.	William Ambrose Morchead (Acting) 1860 Sir William Thomas Denizon, R.C.D 1861	
William Gyfford 1084	Acting Viceroy, 1863 to 1864.	
Elihu Yale	Edward Maltby (Acting)	,
Nathaniel Higginson	Lord Napler of Merchistonn, K.T. (a) 1866 Acting Viceroy.	
Gulston Addison 1709	Alexander John Arbuthnot, C.S.I. (Acting) 1872	
Died at Madras, 17 Oct., 1709. Edmund Montague (Acting) 1709	Lord Hobart 1872 Died at Madras, 27 April, 1875.	
William Fraser (Acting)	William Rose Robinson, C.S.I. (Acting) 1875	
Edward Harrison	The Duke of Buckingham and Chandos 1875	
Francis Hastings (Acting) 1727	The Right Hon. W. P. Adam 1880	
Nathaniel Elwick	Died at Ootscamund, 24 May, 1881. William Hudleston (Acting) 1881	
George Morton Pitt 1730	The Right Hon. M. E. Grant Duff 1881	
Richard Benyon	The Right Hon. Robert Bourke, P.C 1880	
John Hinde	Lord Connemara, 12 May, 1887 (by creation).	
Charles Floyer	John Henry Garstin, C.S.L. (Acting) 1890.	
George Plgot 1755	Baron Wenlock 1831	
Robert Palk Charles Bourchier	Sir Arthur Elibank Havelock, G.C.M.G 1896 Baron Ampthill	
Josias DuPre	Baron Ampthill	
Alexander Wynch	1904.	
George Stratton 1776	James Thomson, C.S.L. (Acting) 1904 Gabriel Stokes, C.S.L. Acting) 1906	
John Whitehill (Acting) 1777	Hon, Sir Arthur Lawley, K.C.M.G., G.C.I.E. 1906	
Sir Thomas Rumbold, Bart 1778 John Whitehill (Acting)	Sir Thomas David Gibson-Carmichael, 1911	
Charles Smith (Acting) 1780	Bart., K.C.M.O., G.C.I.E. (b) Became Governor of Bengal, 1 April, 1912	
Lord Macartney, K.B	Sir Murray Hammick, E.C.S.L., C.I.E. 1912	
Governors of Madras.	(Acting). Right Hon. Baron Pentland, P.O., G.C.I.E. 1012	
Lord Macartney, K.B. 1785 Alexander Dayldson (Acting) 1785	(a) Afterwards (by creation) Baron Napier	
Major-General Sir Archibald Campbell, K.B. 1786	of Ettrick.	
John Holland (Acting) 1789	(b) Afterwards (by creation) Baron Carmi- chael of Skirling.	
Edward J. Hollond (Acting) 1700		

The Bengal Presidency.

The Presidency of Bengal, as constituted on plantations employing a daily average of the 1st April 1912, comprises the Burdwan and 106,305 permanent and 26,200 temporary hands. Presidency divisions and the district of Dariecling, which were formerly administered by the Licutement-Governor of Bengal; and the Rajshahl, Dacca and Chittagong divisions which by the partition of the old Province had been placed under the administration of the Lieutenant-Governor of Eastern Bengal and Assam. area of the Presidency is \$4,002 square miles, and It possesses a population of 46,305,642 persons: included within this area are the two Native States of Cooch Behar and Hill Tippera, which are under the general supervision of the Government of Bengal. The area of the British territory is 78,099 square miles. Bengal comprises the lower valleys and deltas of the Ganges and Brahmaputra, and in the main consists of a great alluvial plain intersected in its southern portion by innumerable waterways. In the north are the Himalayan mountain and sub- looms and \$17,759 spindles. The average montane tracts of Darjeeling and Jalpaiguri, and on the south-cast the hills in Hill Tippera and Chittagong, while on the west the Chota Nazpur plateau is continued by an undulating tract-running through the western portions of Midnarunning through the western portions of situations of them is working and that with pur, Bankura, Burdwan and Birbhum. The 250 loons at present. The total profits general range of the country however is very dafter deduction of interest on debentures but low, and a great fertile plain extends southward subject to allowances for depreciation made from Jalpaiguri to the forests and swamps known by 41 Jute Mill Componies in Bengal (online as the Sunderbans, which lie between the area of 67 Mills) at the close of the year 1916 constitution. cultivation and the Bay of Bengal.

The People.

the Inhabitants of the Presidency 21,237,238 or 52'4 per cent, are Mehon clans and 20,945,379 Hindus. These two major

tongue of 89,000 persons principally residents of Calcutta's exports during 1918-17 and jute in the Darfeeling and Jalpaiguri districts. The manufactures were, it may be noted, India's in the Darjeeling and Jalpaiguri districts. The premier export in that year, great majority of the speakers of the Munda industries are cotton twist and languages are Santals in West and North Bengal.

1911 nearly 35; million or three-fourths of the average 0,806 persons. population derive their support from pasture industry continues to and agriculture, and of these nearly 20 millions are cultivators, and nearly 3 millions farm servants and field labourers. The area under jute in 1917 is estimated at 2 3 6.247 acr s against 2,351,821 in 1916. The weather was favourable for the crop in its early stag s. The crop may be described as a very good one, on the whole, in most of the Fastern Rengal districts, moderate only in Northern Bengal and good in Western Bengal. Bengal is the mo-t important rice-producing area in North mindin, and it is computed that \$5 per cent. Indin, and it is computed that \$5 per cent. Assum amounted to 18,047,000 tons, the devoted to its production. Other crops include barley, wheat, pulses and cell-seeds, the area devoted to the last named being 1,655,400 acres. Sugar is produced both from the sugar cano and from the date-palm, and tobacco is grown for local consumption in nearly every district of Bengal. The area under tea in 1010.17 was 165.800 acres. There was 801 length amounted to 18,047,000 tons, the devoted to the industry employed in the duly average of persons employed in the coal mines in Bengal was 43,010 and in Bergal in the industry employed in the duly average of persons employed in the coal mines in Bengal was 43,010 and in Bergal in the industry employed in the duly average of persons employed in the coal mines in Bengal was 43,010 and in Bergal was 43,010 and in Bergal in the industry employed in the duly average of persons employed in the coal mines in Bengal was 43,010 and in Bergal in the industry employed in the duly average of persons employed in the coal mines in Bengal was 43,010 and in Bergal in the industry employed in the duly average of persons employed in the coal mines in Bengal was 43,010 and in Bergal in the industry employed in the devoted to the provinces is approximately Rs. 6,44 labis. district of Bengal. The area under tea in 1010-17 was 165,800 acres. There was S01 Bengal amounted to Rs. 167,50 crores

Manufacture and Trade. The main industries in this part of Irdia in addition to the agricultural industry are the into mill industry, the tea industry (argely an Assam industry) and Coal mining. The Jute Mills in and around Calcutta coarticles stitute the principal manufacturing industry of the Presidency. During the first nine mouths of the year 1916-17 the industry enjoyed unparalleled prosperity but in the last three months of that year the non-renewal of Government orders and the great scarcity of tonnece coupled with financial difficulties in exchance caused a set back, and finally led to an agree; ment to work short time as from the 1st April, 1917. There were 71 mills belong to 45 companies (including four private concerns) at work throughout the year with 39,401 number of persons employed daily was 20, 199. There were no difficulties as regards the supply of labour. Four new mills have come into existence during the year but may one of them is working and that with only tuted a record, namely, Rs. 023 lakis. The corresponding flaures for 1014 and 1915 were Rs. 1,23 and Rs. 6,09 lakis respectively. The value of the exports of Ray Jute dudos value of the experts of Raw Jute dumbs 1016-17 increased by nearly 47 lakes to Re-15,35 lakhs. The quantity exported, however religions embrace all, but 2.4 per cent. of the was less than in the preceding year by 65,635 population. Christians. Buddhists, and Apimists combined number a little over 1,100,000.

Rongall is spoken by aliesty-two her cent. of Bongali is spoken by ninety-two per cent, of the population of the Presidency and Bundl and Urdu by four per cent. The Origo-peaking in the preceding year. The exports of rai people number nearly 300,000 and Naipali is the of Calcutta a exports during 1918-17 and life. Other principal industries are cotton twist and yarn, slik yarn Industries.

According to the returns of the Census of work during 1916-17 employing daily on any pulation derive their support from pasture industries. O, \$00 persons. The silk ward pulation derive their support from pasture industries continues. only one silk mill working during 1016 which enployed 83 bands. The manufacture of the is carried on an extensive scale in Darjeeling and Jaliascuri. The capital employed in The weather was the industry in India amounts to about Est creres and the daily average labour force 727,000. In 1016 the number of coal minor worked in Bengal was 100. The total output for Bengal was 100. for Bengal was 4,002,000 tons against 4,975,00 tous raised in 1015, while the output of and

which Rs. 70,06 crores represented imports | Cauces with six judges who dispose of cases of and Rs. 97'52 crores exports. Of the total foreign and coasting trade of Bengal, 95 per cent. was the share of Calcutta. The slx chief exports from Bengal are in order of importance; jute (raw and manufactures.) tea, hides and skins (raw), lac, oplum, and seeds and the six leading imports are cotton goods, sugar, metals, machinery and mill-work, oils, and salt.

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Administration.
The present form of Government dates from the 1st of April 1912, when the administrative changes announced by the King-Emperor at Delli in December 1911 came into operation. A Governor was then substituted for a Lieutenant-Governor, who had previously been at the head of the Province, and Lord Carmichael of Skirling assumed charge of the office. He was succeeded let the Earl of Ronaldshay in March 1917. The Governor is assisted by an Executive Council, two of whom are at present ed by Government and by commercial bodie; members of the Indian Civil Service and the in order to improve the meanitary and congested third an Indian. The Civil Secretariat consist areas of the city, the Calcutta Improvement of the Chief Secretary, who is in charge of the Political Appointment and Judicial Department, the Revenue Secretary, the Pinancial Secretary, who also deals with Commercial questions, the General Secretary who deals with questhe General Secretary who deals with quest Union Committees have been formed which tions of Local Self Government and Education deal for the most part with the control of and the Legislative Secretary, two Under-village roads, cannation and water-supply. Secretaries and one Assistant Secretary. 771e Government divides Its time between Calcutta., Darjeeling and Dacca.

being a saministration by ave commissioners, ment of India. The BURCLET BURCLET State of under the Governor in Council, the divisions an opening balance of its 327 corors, estimated being those of the Presidency, Burdwan, revenue amounted to Rs. 6:66 cross and exting that the contract of the District Majorithe and productive agreement Rs. 6:77 cross. Of the administration is the District Majorithe and claring balance of Rs. 46 lables, Rs. 246 lables Collector. As Collector has supervised the ingathering of the revenue and is the head of all the Bepartments connected with it, while as The Public Works D partin at is at present District Magistrate he is responsible for the made the charge of a Chief Englicer and the administration of Crimbial justice in the distriction Department under that of a twingstrict. The impacified superior of the Birrict rary thief Engliser who campointment has been Magistrate is the Divisional Commissioner, Commissioners are the channels of communication between the local officers and the Government. In certain revenue matters they are, in their turn, subject to the Board of Revenue in Caleutty; in other matters they are under the

direct control of Government.

the High Court of Calcutta which consists of the below the High Court are the District and Addis on the Infristrian Department unled by with flored Judges, the Small Cause Court and Subors the man raw endangle often and in the Manife. Of these were large endangles of the first in the dinate Judges and the Manife. Of these were large endangles that the extra produce effects the District and Additional Judges and the Surgice of the District and Additional Judges and the water expected that the Promise of the French Large endangles of the power of a Crimenal Court extrangles of the straightful for the Indian manifest factor for the Indian Manifest in the Court extra product of the first in the Court of the Court of the first in the first in the Court of the first in the first in the Court of the first in the firs

the class that are usually heard in County Courts in England.

Local Self Government.

By Bengal Act III of 1881 which regulates municipal bodies in the interior and its sub-sequent amendments the powers of Commissioners of municipalities have been increased. and the elective franchise has been extended. Municipal expenditure now comprises a large number of objects, including veterinary institutions and the training and employment of Health Officers and Sanitary Inspectors and female medical practitioners. The Commissioners also have large power- in regard to the watersupply and the regulation of buildings. In Calcutta Act (III) of 1890 created three coordinate municipal authority s, the Corporation, the General Committee, and the Chairman, The total number of Commissioners is fifty, of whom 25 are elected, and the remainder appoint-Trust has been created with extensive powers. In the mofus-il, District and Local Boards exercise considerable powers, with regard to Public Works, Education and Medical relief and

Finance.

As in other Provinces, the revenue is diviled between the Loral Government and the Govern-Bengal is administered by five Commissioners, mont of India. The Bullet for 1917-15 showed

Public Works.

may third Engir or who composite at his been sauctioned for he wars. Their distribution of territories on 1st April 1912 coved consideration chings in this Defertment and alread all the irrigition works to the old priving of B and as well as two out of the thing Court Revision Orisin. There was also a court take of the and Orisin. There was also a court take a factor in the staff and in the number of P. W. Cit-Justice. tion in the star one in increase a second first dead in the is entrusted to element blackers. In the building are included at the content of Calcutta which consults of the law the D partment which contents is received to Chief Justice who is a harrister and 13 pulsue entries out misselfor user title for exercise, ludged who are barrister, civilians or making. Irrination Werlade I notifier under the constant of the latter under the latt Below the High Court are the District and Addis or the Irrigation Deputter of march 1 of with

range, the Presidency range, the Burdwan college, a school of art and a commercial school range and the new Bakargani range and also in Calcutta and a wearing school at Scrampore. two Deputy Inspectors-General, one in charge of the C. I. D., and the other in charge of the Hitlingence Branch of the C. I. D. Each trick is in charge of a Superintendent, and English schools for the education of bors. several of the more important districts an Adoltional Superintendent. The Rehave The Railwya Police is divided into three distinct charges each under a Superintendent. The River Police is also under a Superintendent. The Assista t Suprem-lenta Inspectors, cadre compris a Superintendents, Sub-Dennie Superint indents, In-pector, Surgeants, head constables and con tables. There is also a Village Police, composed of daffadars, and chowkidars, receive a monthly salary which is collected from the villages by the Panchayat. In the Madaripur Suir-Division however the dadapartly by Covernment and partly by the Panchayat. The Calcutta City police is a separat force maintained by Covernment and partly by the a Commissioner who is responsible direct to Government. The Commissioners has under him Deputy Commissioners, Assistant Commissioners, In pector, Sub-Inspectors, head constables and constables, and a reserve force of about 120 European ergeants. A school for the training of reer its for the Calcutta Police for e has been established at Calcutta. Calcutta There is a training college and school at Sarda. in the district of Rajebahi where newly appoint for technical and industrial education. A large ed gazetted officers, Sub-Ins ectors and con-stables learn their luties. There are three other schools at Dacca, Berhampore and Rampur Boalla for the training of constables. The annual cost of the Police is over Rs.110lakhs.

Medical. The head of the Medical Department is the Surgeon General with the Government of Bengal, and Sanitation is in charge of the Sanitary Commissioner, both these officials being members of the Indian Medical Service.

There is also a Sanitary Engineer for the Presidency. In the districts the Civil Surgeons are responsible for medical work. There are 22 hospitals in Calcutta. 10 of which are supported by the Government and 408,927 persons are treated at these institutions annually, of whom nearly 31,507 are in-patients. mofussil districts there are several hundred hospitals and dispensaries; the number of chatients treated in them during 1916 was 5,745,077 including 60,803 in-patients.

Education.

In the Presidency of Bengal education is imparted partly through Government agency and partly through private bodies, and to agency large measure by Government grant-in-aid. Government maintains three Arts Colleges in Calcutta (of which one is a college for women and one the Sanskrit College), one at Hughli, one at Krishnagar, one at Dacca, one at Rajshahi and one at Chittagong. It also maintains two training colleges, one at Calcutta and one at Dacca, for teachers who teach in secondary schools through the medium of English and 5 normal schools, one in each division, for the training of teachers in secondary schools through

Burdwau ! college, a school of art and a commercial school walle to some Government Arts Colleges high schools are attached. In Calcutta there are ave high schools for boys, two of which are attached to Presidency College and one to the Sanskrit College. Government high schools for girls exist only in the headquarters stations of Calcutt, Dacca, Mymensinch and Chittagong. The other secondary schools, with the exception of a few middle schools managed either by Government or by boards, are under private control. The administration of primary ducation in all areas, which are not under mun.cipalities, rests with the district learls, large grants being given from provincial reve ones to the boards, which contribute only in backward localities are such schools either entirity managed, or directly sided, by Government.
Apart from the institutions referred to abore, apart from the institutions referred to above 115 institutions called Guru Training Schools are maintained by the Department for the training of vernacular teachers. For the education of Mahomedans, there are senior madrasas at Calcutta, Dacca, Chittagone and Hughli, which are managed by Government. Paere are also cortain Government institutions proportion of educational work of every start hree is under the control of various missionary and bodies, which are assisted by Government grants-in-aid.

The municipalities are required to expend a certain proportion of their ordinary income on education. They are mainly responsible (or primary education within their jurisdiction, but colored to the control of the colored to the but schools in these areas are eligible \$120; for grants from Government. Tacse todies for grants from Government. These bodys maintain a second grade Arts College and a high school at Midnapore, a high school at Burdwan, a high school at Baranagore and a

high school at Chittagong

with 19,18,434 pupils in all.

There are now in the Presidency:--41.960 Arts Colleges 33 Secondary Schools Law Primary Schools n Medical Colleges a Special Private Institutions Engineering College 1 Training Colleges

The Government Educational Budget alletment for the province for 1914-1915 is Es. 1,45,43,000. Of this a large proportion represents the grants recently allotted by the

Government of India.

The Department is administered by an Director of Public Instruction, assisted by an Director for the Public Instruction of the Public Instruc Assistant Director and an Assistant Director for Muhammadan Education and a special officer in connection with Technical and Industrial Education. Each division is in charge of a Divisional Inspector assisted by a certain number of Additional and Assistant Inspector, according to the requirements of the several divisions. Similarly the administrative charthe medium of the vernacular; also an engineering of the primary education of each district is in neering college at Sibpur and an engineering the hands of a Daputy Inspector assisted by achool at Dacca, a medical college, a veterinary Additional Deputy and Sub-Inspectors of

School, the later class of six is buy in some IV per College, Calcutta, Principal, Ramendra lathers a hoped la someray of the large target on the Treacell. ##ind Anters I Schaft sporters and Inspects of the not selffely refridential Principal, O.C. Boss, For the cold Norther Charles and a properties of a construction with a trincipal, the Rec. Berry Market of Norther Calcula, Principal, Institution of the Cold Calcula, Principal, Institution, Calcula, Calcula, Principal, Institution, America, and America, and America, and America, and America, and America, the Rec. Berry Cold Calculation, Principal, Rendering the Rec. Berry Cold Calculation, Principal, Rendering the Rec. sting from the or of Bergula, the Western Section of Triples All modes Cilicge, Retamples, Principal, perpendic between the constraint of the Bergula Bergula Bergula Description and the Comments of the Comm for the character of a Complete of the following of the formation of the following of the f ร์สร้างเป็นที่จะเป๋า เราะ เการ์ส ที่เครื่น พระการสุดกัน ที่ ที่ที่เ สากรรวงสี พ.ศ. พระกรกครามการสำรัช พ.ศ. 1975 การสามาร ŧ Tie Ville mily mandar's Lienter (miles) mil is Po Colomby Ing Colom, Camba To the Coloryty Law College, Calmiga-Universitate a state an examinit offente, but to has remmable its off responsible for the actual fraction of stoless, for which purpose it Mescape, Mescape, employs an array which is guite distinct the hoper College, Princy of Journal a Nath from the start of the affiliated colleges. To folia fing Calmedity Performing City.

bren frant Leith Persona Kumar Title-Law Princership, (2) this Par corting of Execute 3) Beers V Post-corting Strutal no i Moral Moles en 141 Har ling : Professorchipent Big'ist Math matter, (5) Carmichael Part score! with of Anglet Indian History and Culture, (6): Part Professionallys of Cambing and Paydean G) Sir Rock Polary Gluss Professor-hip of a Applied Mathematic, Paysics, Chemistry and Brinny, and (4) Euro Prit mobiles of English.

Tar principal classification statisfies are:-Government Arra Connains. Problems College, Calcutta, Principal, W. C

Worden orth. Darra Coll go, Principal, W. A. J. Archbold,

Rajehald College, Printipal, Rat K. K. Bancrid Medical College, Calcutta, Principal, Lt.-Col.

Cultiazour College, Principal, J. R. Barrow, Surskrit College, Principal, Dr. S. C. Acharya, Hurbit College, Principal, J. M. Bottoniev, Krishnagar College, Principal, B. & Gilderist. Bethune College, Calcutta, Principal, Miss A. L. Janau.

> PRIVATE ARTS COLLEGES. Aidel.

Scottish Caurch, College, Calcutta, Principal, Rev. J. Watt. Navier's College, Calcutta, Rector, Rev.

Pather Cmhan, Jazannath College, Dacca, Principal, Rai L. M. Chatterli Dahadur.

Brajamehan College, Barisal, Principal, N. L. and the Municipal College at Midnapore, Monkfurrice,

Anandamphan College, Mymensingh, Principal, Dr. J. Gho h.

Victoria College, Comilla, Principal, Satyendranath Basu,

We legan College, Bankura, Principal, Rev. J Mitchell. Victoria College, Narall, Principal, Goral-

chandra Maltra. Hindu Accdemy, Davistpur, Principal, Kama

khyncharan Nag. Scrampore College, Principal, The Rev. Dr. George Howell.

St. Paul's Cathedral Mission College, Calcutta, Principal, The Rev. W. E. S. Holland.

Edward College, Pahna, Principal, R. Bose, Dinorgan College, Calcutta, Lady Principal, Sister Mary Victoria, C.T.S.B.

Chandra Maitra.

Problems Tol College, Principal, Umacharan Pr. log alleivava

Utterfora C Cogo, Principal, Jorendra Nath Mitta

Kristeigth Children, Britishipim, Principal. S Harry jot 1

Lordo Bone, Caletta, Lady Principal, The Rev. Noth r Mary Briggs, 1 B V M.

Harra.

COLLUGET DOS PROFESSIONAL TRAISING.

Elisterian - Greenment. Civil Bucces ring College, Silipur, Principal, B. Heaten.

Ferrid in - Garyaniert.

David Hare Training Copyre, Principal, W. E. Griffith, (on d. potation), Bilin Chinta Haran Chakravarti (offa) Direct Training Coll go, Principal, R. R. Dis-(on deput Aton). Mr. H. A. Stack (offg.)

Actes. L. M. S. Teabling College, Bhowanipers (Cal-

cutta), Rev. A. Sims Diocean College, Calcutta, Indy Principal, Sister Mary Victoria, C Lt B.

Melicine -Government.

J. T. Calvert.

Inc. University Law College, Calcutta, Principal, Dr. Satts Chandra Bageht.

The Law Department, attached to the Dacca College, Vice-Principal, Warrelt Chandra Sin Gupta,

The Law Department, attached to the Ripon College, Calcutta, Principal, Jankinath Bhattacharil.

There are also Pleader-hip classes attached to the flow mment Colleges at Daces, Rajshahi, Hoozly, Chittagong and Krishnagar and in the unaided college at Berhampore, the Ripon College and the Metropolitan Institution, Calcutta,

Administration.

GOVERNOR AND PRESIDENT IN COUNCIL His Excellency The Rt. Hon. Lawrence John Lumley Dundas, Earl of Ronaldshay, G.C.I.E.

Took his seat, 26th March 1917. PERSONAL STAFF.

Private Serretary, W. R. Gourlay. Military Secretary, Goot, Henry George Vaux.

Surgeon, Capt. J. D. Sandes, I.M.S. Alder-de-Camp, The Hon. Captain C. D. Finch-

Knightler, Lt. E. K. Stephenson.

Honorary Aider-de-Camp, Col. C. M. Pearce,
v D. Commander E. A. Constable, R.N.;

Lt.-Col. R. Glen, v.D.; Lt.-Col. G. F. Stoddart: Lt.-Col. R. S. Hawkins, v.D.; Commander Duncan Frederick Vines, R. I. M.; Lt.-Col. D. A. Tyrle, v.D.

City College, Calcutta, Principal, Heramba Extra Aide-de-Camp, 2nd IA. D. Balfour,

Lothian and Border Horse.

The United Provinces.

The United Provinces of Agra and Oudh lie dialect of Western Hindi, though it contains a in practically the centre of Upper India. They are bounded on the north by Tibet, on the north-east by Nepal, on the south and southeast by Bengal, on the south by two of the Chota Nagpur States of the Central India Agency and the Saugor District of the Central Provinces, and on the west by the States of Gwallor, Dholpur, Bharatpur, Sirmor, and Jubbai, and by the Punjab. Their total area amounts to 107,207 square miles, to which may be added the area of the two Native States of Tehri and Rampur, both of which lie within the United Provinces, 5,079 square miles and the newly-created independent State of Benares with an area of 805 miles, giving a total of 112,346 square miles. The total population is 48,014,030, out of which Tehrl and Rampur account for 832,030.

The Provinces, originally termed the North-Western Provinces and so amalgamated in 1877, receiving their present designation in 1902, include four distinct tracts of country: portions of the Himalayas, the sub-Himalayan tracts (the Kumaon), the great Gangetic plain and por-tions of the hill systems of Central India (Bun-delkhand). The first two of these tracts are infertile and support a very sparse population and the Central Indian plateau is almost equalby infertile, though better populated. The soil of the Gangetic plain, however, possesses an extreme fertility and here the density of population rises from 512 persons per square mile in the west, to 549 in the centre and 718 in the east, which gives the Provinces as a whole a greater population pressure on the soil than any other Provinces in India. In the south there are low rocky hills, broken spurs of the mountains, covered with stunted Vindhyan trees and jungle, and in the North the lower slopes of the Himalayas, clothed with dense forest, affording excellent big and small game shooting, and rising beyond in a tangled mass of ridges, ever higher and higher, until is reached the line of the eternal snows, but the greater part of the provinces consists of level plain, teeming with highly-cultivated fields and watered by four rivers—the Ganges, Jumna, Gogra and the Gumti.

The People.

The population is mainly Hindu, 85 per cent, ranking as such whilst Mahomedans number 14 per cent, the total of all other religions being per cent., the total of all other religions being less than 0.6 per cent, composed of Christians (Europeans and Indians), Jains, Aryas and Sikhs; the Aryas are the followers of the Aryas Samaj sect, which obtains widely in the Punjab and has extended its influence to the United Provinces. The three main physical types are Dravidian, Aryan and Mongoloid, the latter being confined to the Himplana and the latter being confined to the Himalayan and sub-Himalayan districts and the former to South Mirzapur and Bundelkhand, whilst the high-caste Aryans frequent the western Districts of the Province. Most of the people, however, show a mixed Arya-Dravidian origin. Three lan-

large admixture of Persian and Arabic words. which makes it a lingua franca.

Industries.

The principal industry is agriculture, which supports no less than 71.7 of the population. The soils of the Provinces fall into_three groups; the valley soils of the Himal-ayas, the main alluvium and the Central Indian alluvium; the chief characteristic soil of the Central Indian allavium is the black soil, with a lighter variant; though here also there are light leams and gravel. The Himalayan soils are of local origin and vary with the nature of the rock from which they have been formed, whilst the main alluvium soils are sand, clay whilst the main alluvium soils are sand, clay and loam, the loam being, naturally, the most productive. The soil generally yields excellent crops of rice, millet, maize, linseed, cotton, wheat, sugarcane, pulses, barley and poppy, rice being grown mostly in low-lying, heavy clays. The greater part of the Provinces is highly cultivated, the rainfall varies from 50 to 60 inches in the Benares and Gorakhpur Divisions, whilst the Agra Division receives about 25 to 30 inches annually only. Drought serjously affected Rundelally only. Drought seriously affected Bundelwho only brought satisfies a detect building which and the Agra Division, in the past, but improved drainage, and irrigation (a protective system of irrigation works exists and is being extended) have enabled a complete recovery to be made and the agricultural prosperity of the Provinces is now high, though it varies with the rainfall. The great scourge has been, and is, that of plague, which hampers the agriculturist everely, and in the Terni, malara still exacts a large toll. Land is held mostly on the ryotwari tenure in Bundel-khand and Kumaon, on zemindari tenure in Agra and taluqdari tenure in Oudh. The principal land owners in Oudh are the Taluqdars, some of whom own very large estates. The area held in taluqdari tenure amounts to 51 per cent, of the total area in Oudh.

Manufactures.

The Provinces are not rich in minerals. Coal exists in Southern Mirzapur, and copper are found in the Himalayan Districts, and there were mines of importance there formerly, but increased difficulty of working them as velns became exhausted resulted in the closure of most of them. Gold is found in minute quantities by washing in some of the rivers in the Hills. Limestone is found in the Himalayas and stone is largely quarried in the Mirzapur District. Cotton is ginned and spun throughout the provinces, as a home industry and weaving by means of hand-looms, is carried on in most districts. In 1901 nearly a million persons were dependent on weaving, 140,000 on spinning and 136,000 on cleaning, pressing, and clinning, but during the last decade these industries have been on the decrease. The largest industry is in Azamearh district, where guages are spoken by the great majority of the there are 130,000 looms. Silk spinning is conpeople in the plains—Western Hindi, Eastern fined almost entirely to the district of Benares; Hindi and Behari; Urdu, or Hindustani, is a where the famous Kinkob brocade is made. Embroldery is manufactured in Lucknow, where the [noted chikan work of silk on cotton or muslin, is produced, and in Benares, where gold and sliver work on velvet silk, crepe and sarsenet obtains. The glass industry is important in some districts, Benares and Moradabad are noted for their lacquered bress work, porcelain is manufactured at Ghazipur, and other industrial and their lacquered bress work. tries are those of paper-tanking (Lucknow) dyeing, leather-work and fireworks. The chief centre of European and Indian industry is Cawnpore, which, situated in most advantageous position on the Ganges, possesses tanneries, cotton, woollen, jute and other mills, which have a large and ever increasing output (the woollen mill is the largest in India). There are cotton factories at Aligarh (famous for its locks), Meerut and Bareilly; Miraput (which produces also excellent carpets), Hardoi and Hathras have cotton mills. Excellent furniture is made at Bareilly, at Allahabad there are stone works, at Rosa there is a very large English distillery, with patent still, and the provinces can claim six breweries, with an out-turn of over a million gallons.

The largest trade centres are Cawapore, Allahabad, Mirzapur, Benares, Lucknow, Meerut, Aligorh, Hathras, Muttra, Arga, Farukhabad, Moradabad, Chandausi, Barelly, Sahamapur, Muzufarnamar, Ghaziabad, Khurja, Gorakhpur,

Thazipur, Pilibhit and Shahjahanpur.

Administration.

administered by The Provinces are Lieutenant-Governor, who is generally chosen and the latter, represented by a Judicial Commis-from among the members of the Indian sioner and two Additional Commissioners, one Civil Service who have served in the Province. of whom is an Indian, sits always in Lucknow. The medium for the transaction of public bush-1 There are twenty-serven District and Additional ness is the Secretariat, the Staff of which con-listed Judges, (Indian Civilians) twenty-one asts of five Secretaries and five Under-Secre-taries. The Chief Secretary is in charge of the ginal and appellate jurisdiction in civil and crimitaries. The Chief Secretary is in charge of the ginal and appellate jurisdiction in civil and crimination, Appointment, General Administration, and cases, and occasional appellate jurisdiction in tion, Political and Forest Departments; another secretary attends to the Medical, Judicial, tanta, including Tahsidars, preside in both Police, Lducational and Sanitation Departments; whilst a third looks to the local Self-Government. Financial. Municipal, Miscellancous and Separate Revenue Departments. The other two Secretaries belong to the Public In the larger Cantonments, the Cantonment Works Department, and are also Chief Engh. Magistrates have limited powers as Judges of a contract of whom deals with Irragation, and a Small Cause Court. There are also Subor-Works Department, and are also Chief Engineers, one of whom deals with Irreation, and the other with Roads and Buildings. Government spends the cold weather, October to April, in Lucknow and Allahatad, mostly in Lucknow, the Secretarist mayes between these two places. The Liutenant-Governor and the Secretarist pend the hot weather to Nami Ial, but during the managen the Liutenant-Governor tours in the managen the Liutenant-Governor tours in the blains, as he does also in the cold weather. The Beard of Revenus is the highest count of appeal in recenue and rent cases, and it has important executive duties, being the chief revenue authority in the Provinces. There are fortyright British districts, thirty-six in Agra and tractical Court. twelve la Oudb, average area 2,000 square miles and average population a million. Each District is in charge of a District Officer, termed a Copyright and Markitrate in Agra and a Deputy Commissioner and Markitrate in Ough and tatter deriving its revenue from octricits are grouped together in Divisions under it and other forms of taxation. The all and commissioner. There are nine Divisions, by the commissioner area of nearly 12,000 senare that and a population of from 5 to 6 millions. and average repulation a million. Each Dis-

The Districts are sub-divided into tahsils, of which there are 217, with an average area of 500 square miles and a population of 220,000. Each Tahail is in charge of a Tahaildar, who is responsible for the collection of revenue, and also exercises judicial powers Tahrils are divided into parganas which are units of importance in the settlement of land revenue. Subordinate to the Tahsildars are Lanungos, of whom there are, on an average, three to a tahsil. These officials supervise the work of the paticaris, or village accountants, check their papers and form a link direct between the villagers and Government. For judicial purposes (revenue and criminal), the District Officer assigns a subdivision, consisting of one or more takede, as the case may be to each of his subordinates, who may be covenanted civilians, (Joint and Assistant Magistrates and Collectors) or members of the Provincial Service (Deputy Collectors and Magistrates). The Commissioner of the Barelly and Kumaon Davisions are Political Agents for the Native States of Rampur and Tehri respectively and the Commissioner of Benarcs is the Political Agent for Benarcs State.

Justice.

the High bς Justice is administered and the Court in the Province of Agra, Court of the Judicial Commissioner, in Oudh. which are the final appellate authorities in both criminal and civil cases. The former, which consists of a Chief Justice and five puisne Judges, a tro of whom are Indians, sits at Allahabad,

Local Government.

non-official Chairman, with an Executive Officer sistant Superintendents. There is a Police who is directly responsible to the Board in all Training School at Moradabad. There is a matters. Local self-government has a fingiven a local C. I. D. forming a separate detective dewider extension by the Municipalities Act, passed partment, under a Deputy Inspector General, in 1916, under which the responsibilities of the boards and their chairmen have been argely inspecially recruited, and armed with the Martini creased. They deal with questions of sanitation, communication, lighting, town improvement, roads, water supply, drainage and education-Grants are made to Boards by Governments in some cases for special jurposes from general revenues. Small towns, termed Act XX towns, also enjoy some measure of local self-government at d It is under consideration to extend the principle here, too.

Finance.

The Financial history of the Province not been a happy one, inadequate settlements, i.e., contracts between the Government of India and the local Government, and the severe familie in 1896 having caused Provincial bankruptcy, which for a long time necessitated rigid economy in order to accumulate reserves which could be spent on productive works. Recently liberal Imperial assignments have been made by the Government of India and the financial prospects are accordingly much brighter, though the war is naturally hampering progress. The local government gets 3-8 only of the land revenue. The Provincial Budget for 1917-18 shows an opening balance of 172 lakhs, revenue 695 lakhs, and expenditure 695 lakhs, and a closing balance of 172 lakhs.

Public Works.

The Public Works Department is divided to the Roads and Buildings branch and the Irritation branch, each of which is administered by a Chief Engineer, who is also a Secretary to Government. The Provin-ces are divided into three circles and ten divisions for the administration of roads and buildings, and into four circles and twenty divisions for irrigation purposes. Each circle is in charge of a Superintending Engineer, and each division is in charge of an Executive Engineer. The whole of the irrigation works constructed or maintained by Government are in charge of the Department, nearly all metalled roads, and also bridges on second-class roads, and generally, all works costing more than Rs. 1,000, except in Municipalities. The most important irrigation works within the last twenty years have been the construction of the Betwa Canal. Canal, the Mat branch of the Lower Ganges these 5,443 were learning English, 3,200 a classical improvements in the Rohilkhand and Terai budgetted for education this yearle classical budgetted for education this yearle classical budgetted for education this yearle classical contents of the content of the c the Doab districts of the Meerut and Agra divi-Important irrigation extension works are now being considered. The budget for irrigation and other public works for the present year is 128 lakhs.

Police.

The Police Force is divided into District Rollway Police and is administered and by an Inspector-General, with five Deputies, one of whom is in charge of Railways, and two Arsistants, forty-nino District Superintendents, two Railway Superintendents, and thirty As- at Benares

Kitle. The present cost of the force is 127 lakhs. The administration of the Jail department is in charge of an Inspector-General of Prisons, who is a member of the Indian Medical Service.

Education.

Education is in part wholly State-maintained; and partly by means of grants-in-aid. There is a State University at Allahabad, a Government Sanskrit College at Benarcs, whilst Arable and Persian are taught in special classes at the Muir College, Allahabad, which also has a special science side, which of late has been greatly extended, and there is a Government Engineering College at Roorkee (Thomason College). There are aided Colleges in Lucknow (Canning College), (Reid Christian College), and (Isabella Thoburn College), Agra (St. John's), Aligarh (the Mahomedan Oriental College), Gorakpur, Cawnpore and Meerut, and an unaided College at Benares, the Central Hindu College. In Lucknow there is the Martinicre school, an entirely independent institution, for European and Anglo-Indian children, and there is a Girls Martiniere connected with it, whilst in the Hill-Stations, Naini-Tal and Mussooric, there are many excellent private scholastic institutions for European boys and girls, which are attended by students from all over India. Government maintain Training Colleges, for teachers in Lucknow and Allahabad, an Art Crafts and an Industrial School in Lucknow, and an Agricultural College at Cawnpore. Public Schools are almost entirely maintained by the District and Municipal Boards and primary education is almost entirely in their hands. Primary and female education are in a very backward condition, though there was in 1915-16 an increase in pupils under loth heads. Technical education is being pushed forward. The total number of schools of all kinds decreased by 170 to 17,631, but that of scholars rose from 832,454 to 841,334. The number of secondary public schools (high schools and middle schools, English and vernacular) for Indian loys rose from 694 to 611, while the number of scholars fell from 102,012 to 07,049. The decrease was wholly in vernacular schools. Students receiving

Higher education is controlled by the Allahabad University (constd. in 1887) which consists of a Chancellor, Vice-Chancellor and reventyave ordinary and four ex-oficio fellows, of whom some are elected by the Senate or by registered graduates and the Faculties, and the remainder nominated by the Lieutenant-Governor, in his capacity of Chancellor. The Faculties are those of Art, Science, Laward Medicine, and the University possesses an important Law School. It is proposed to establish a Mahomedan University at Alizarh and a Hindu University has been inaugurate!

The principal educational institutions are:- | Honorary The Mahomedan Anglo-Oriental College, Aligath-Principal, J. H. Towle.

The Central Hindu College, Benares-Principal, P. B. Adhlkari, offg. St. John's College, Agra-Principal, Rev.

A. W. Davies.

Muir College, Allahabad-Principal, S. G. Jennings.

Queen's College, Benares-Principal, P. S.

Barrel. Canning College, Lucknow-Principal, M. B.

Cameron. College-Principal, T. Cathbertson Agra

Jones. Reid Christian College, Lucknow-Principal.

Rev. T. C. Badley. Meerat College-Principal, William Jesse.

Woodstock College, . & Rev. H. M. Andrews. College, Muszoorie-Principal,

Bareilly College-Principal, J. H. Alderson. Christian College, Allahabad-Principal, Rev.

C. A. B. Janvier. Christ Church College, Camppore-Principal,

Rev. M. S. Douglas. Isabella Thoburn College, Lucknow-Princi-

pal, Miss Robinson. Thomason College, Roorkee-Principal, Lt.

Col. E. H. de Vere Atkinson. King George's Medical College, Lucknow-Offg. Principal, Major J. W. D. Megaw, Lu.s. F. Mackinnon.

Medical

Medical Department is in charge of H. C. Ferard. of Civil TT. Inspector-General Civil Surgeon is in charge and is responsible for the medical work of each distriet, and in a few of the larger stations he has an assistant. In two stations (Rankhet and Officers in military employ Mirza Sami Ullah Beg. Almora) Medical hold collateral civil charge. three Assistant Surgeons in charge of important dispensaries and a large number of Indian hospital assistants. Lady doctors and female hospital assistants visit purda nathin women. Pandit Jazat Karayan. in their own homes and much good work is Lala Madhusudan Dayal. done in this manner.

The best equipped hospitals, for Indian patients are the Thomason Hospital at Agra and thou Lai Scuru.
the Balrampur Hospital at Lucknow. The Bai Sadanand Pande Bahadur.
Tamsay Hospital for Europeans at Kaini Tal is Maharaja Sir Bhagwati Prasad Bingb; R.C.L.E. a first class institution and there are also the Lady Dufferin Hospitals. King George's Medical Raja Kushalpal Singh. College and the hospital in connexion with it have been opened recently in Lucknow, has ashbhuja Pr The College is one of the best equipped in the Salyid Raza All. have country, with a staff of highly efficient pro- Rai Shankar Sahai 8 frasors, and the hospital is the first in the Provinces. There is an X-Ray Institute at Radha Kishan Das. Dehm Dun, where valuable research work has C. Y. Chintamani. been carried out and the Pasteur Institute at Karauli take cases from all parts of India, and there are canatoria for British soldiers in the Hille.

Administration.

Lieutenant-Governor, Sir J. S. Meston; K.C.S.I. Assumed charge of office, 16th September 1912. Private Secretary, C. W. Gwynne, I.C.S.

onorary Aides-de-Camp, Licut.-Col. P. H. Clutterbuck, Lieut.-Col. J. H. L. Beer, C.L.F., Y.D., Licut.-Col. J. Walker, Y.D., Hony, Capt. Subadar Major Change Singh Burathoki Risaldar Major Qudrat Khan Bahadur.

> LEGISLATIVE COUNCIL OF THE LIECTERANT-GOVERNOR.

President, The Lieutenant-Governor. Pice-President, J. M. Holms, C.S.I.

Membere. Muzammil-Ullah Khan, Nawab Muhammad Khan Bahadur, of Dhimrampur.

Runwar Aditya N. Singh, of Benarcs.

J. S. Campbell, C.S.L., C.I.E.

Raja Sir Muhammad Tasadduk Rasul Khan, K.C.S.I.

Nawab Mumtaz-ud-davia Sir Muhammad F. All Khan, K.C.I.E., E.C.V.O., C.S.I. of Pahasu.

A. W. Pim. A. L. Saunders, c.s.i.

R. Burn.

G. T. Barlow.

W. S. Marris.

S. P. O'Donnell.

Herbert Morton Willmott. Rai Janki Prasad Bahadur.

Col. C. Mactaggart, CJ.E., L.M.S.

C. F. de la Tosse.

H. R. C. Halley.

Hospitals, W. E. Crawshaw,

Rai Anand Sarup Bahadur. William Hey Cobb.

Henry Mayne Reld Hopkins.

Tara Dat Gairola,

Sir Sundar Lal.

Munshi N. P. Ashthana. Moti Lai Nehru.

of Balrampur.

Ral Ashbhuja Prasad Bahadur,

pro- Rai Shankar Sahai Sahab.

Gokaran Nath Misra.

Sukbir Singh,

Raja Chandra Chur Singh. Babu Moti Chand.

Nawab Muhammad Abdul Majid Lorie P. Watson.

E. H. Ashworth.

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Salyid Al-i-Nabi Khan Bahadur. Sayid Wazir Hasan.	The Right Hon. the Governor-General 1838 in the North-Western Provinces (Lord Auckland).
Secretariat.	T. C. Robertson 1840
Chief Sceretary to Covernment, R. Burn.	The Right Hon, the Governor-General 1849
Financial Secretary to Government, G. G. Sim I.C.S.	in the North-Western Provinces (Lord Ellenborough).
Judicial ,, S. P. O'Donnell	
Secretary to Government, Public Works Dept	James Thomson. Died at Barelly 1843
(Buildings & Roads, & Railways), H. M. Willmott.	
Secretary to Government, Public Works Dept.	J. R. Colvin. Dled at Agra 1853
(Irrigation), G. T. Barlow.	B. I. Icado, in charge ii
Requitars, F. E. Lowe, A. Grant, A. M. Jelly, F. C. Richardson, A. M. Jelly and C. St.	
L. Toyen.	The Right Hon. the Governor-General 1858 administering the NW. Provinces
BOARD OF REVENUE.	(Viscount Canning),
Members, 6. M. Holms, c.s.i., J. S. Campbell	Sir G. F. Edmonstone 1859
C.S.I., C.I.E.	R. Money, In charge 1863
MISCELLANEOUS APPOINTMENTS.	The Hon. Edmund Drummond 1863
,	Sir William Muir, K.C.S.I 1868
Opium Agent, Chazipur, C. E. Wild.	Sir John Strachey, K.C.S.I 1874
Director of Land Records and Agriculture, H. R. C. Halley.	Sir George Couper, Bart., c.B 1870
Director of Public Instruction, C. F. de la Fosse.	LIEUTENANT-GOVERNORS OF THE NORTH- WESTERN PROVINCES AND CHIEF COMMIS-
Inspector-General of Police, D. M. Straight. (On military duty); W. S. Marris, Sub. pro tem.	sioners of Oudil.
Inspector-General of Civil Hospitals, Col. C.	Sir George Couper, Bart, C.B., E.C.S.I. 1877
Mactaggart, M. A., M.B., C.I.E., I.M.S.	Sir Alfred Comyns Lyall, K.C.B 1882
Sanitary Commissioner, LleutCol. S. A. Harriss, L.M.S.	Sir Auckland Colvin, R.C.M.G., C.I.E 1887 Sir Ches. H. T. Crosthwalte, K.C.S.I 1892
Inspector-General of Registration, W. Raw.	DIE OMMON 220 21 01 01 01 01 01 01 01 01 01 01 01 01 01
Commissioner of Excise, T. A. H. Way.	Sir Antony P. MucDonnell, E.C.S.I. (a) 1895
Accountant-General, Upendralal Mazumdar, M. A.	Sir J. J. D La Touche, K.C.S.I 1901
(on leave); Jyotish Chandra Mitra, M.A., B.L.	(a) Afterwards (by creation) Baron MacDonnell.
Inspector-General of Prisons, LtCol. S. H. Henderson, M.B., C.M., I.M.S.	LIEUTENANT-GOVERNORS OF THE UNITED
Postmaster-General, Lionel Truninger, C.I.E.	PROVINCES OF AGEA AND OUDE.
Chemical Analyser, Dr. E. H. Uankin.	Sir J. J. D. La Touche, K.C.S.L 1902
LIEUTENANT-GOVERNORS OF THE NORTH-	Sir J. P. Hewett, K.C.S.I., C.I.E 1907
	L. A. S. Porter, C.S.I. (Officiating) 1912
Sir C. T. Metcalfo, Bart., G.C.B 1836	Sir J. S. Meston, K.C.E.L 1912

The Punjab.

The Punjab; or land of the five rivers, is so is largely urban. The western plains cover called from the five rivers by which it is enclosed, namely, the Jhelum, Chenab, Ravi, lation of a little over six millions. The rain-Bers and Saulej. Together with the North-fall in this erea, heaviest in the north and west Frontier Province and the Native State cast and decreasing towards the west and south, of Jamma and Kashmir which lie to the north, is everywhere so scanty that cultivation is only the Punjab occupies the extreme north-westexception of the above-mentioned province, comprises all of British India north of Sind and Rajputana and west of the river Jumna. Previous to October 1912, the Punjab with its feudatories embraced an area of 136,330

the west. The north-cast is occupied by a ideal, section of the Himpinyas and the Salt Range forms its north-western angle. A few small spurs of the Aravalli mountain system traverse; of the Siwaliks, runs the narrow sub-montane tract. This tract, secure in an ample rainfall. and traversed by streams from the hills, comprises some of the most fertile and thickly popu-

possible with the aid of artificial irrigation or ern corner of the Indian Empire, and with the upon the low-lying river-banks leit moist by the retreating floods. In this very circumstance, these tracts find their searchy against famine, for there cultivation is almost independent of rain, a failure of which means nothing worse than a scarcity of grass. So its feudatories embraced an area of 136,330 nothing worse than a scarcity of grass, but equare miles and a population at the Census of 1911 of 24,187,750 (inclusive of 28,597 transfronter Baluchis) that is to ear, about one thirteenth of the area and population of the Indian Empire. But the formation of a separate province of Delhi reduced the area and population of the Punjab by about 450 square miles and 390,000 souls respectively. Of the total area of the Punjab so,5551 square miles are to Native States (34 in number) with a population of 4,212,794, and 2,565 square miles are tribat ferritory on the western border and Dera Ghazi Khan district with a population of 28,537. both heat and cold than any other portion of Physical Features.

The greater part of the Punjab consists of one vast aliuvial plain, etretching from the sum and invigorating air make the climate the work. The partition of the Punjab in of the Punjab in the east to the Suleman Range in of the Punjab in the cold weather almost

The Pcopic.

spurs of the Aravalli mountain system traverse the extreme south-east and terminate in the Ridge at Delhi. The Punjab may be divided into five natural divisions. The Himalaran tract includes an area of 22,000 square miles, with a scarty population iving scattered in tiny mountain hamlets. The balt Range tract includes the districts of Arock, Ravalpidi and Jhelum and part of Shahpur district. Its physical configuration is broken and considered and the mountainous tracts of Murree and Kahuta approximate closely in characteristics to the Himalayan tract. Except in the hills, the rainfall leaves little margin for protection against distress in unfavourable seasons and including the how range for the Sixaliks, runs the narrow sub-montane tracts. The Gujars are an important agricultural and nastoral tribe chiefly found the sixaliks, runs the narrow sub-montane agricultural and nastoral tribe chiefly found the contract of the Sixaliks, runs the narrow sub-montane agricultural and nastoral tribe chiefly found the care in the provide many of the best recruits for the location of the Sixaliks, runs the narrow sub-montane and private and nastoral tribe chiefly found agricultural and nastoral tribe chiefly found the provide many of the best recruits for the provide many of Of the population roughly one half is Mahoab provide many of the best recruits for the Indian Army. The Gujars are an important agricultural and pastoral tribe, chiefly found in the castern half of the province and in the extreme porthers to a Carachestical there. extreme north-west. In organization they closely resemble the Jats and are often absorbed prises some of the most ferthe and thickly populated portions of the province. Its population of over four millions is olimost wholly cultural tribes, prestly and relicious casted the town in Sialkot. Of the plains of the whom are landholders, the trading cates of the Hindus (Khatha) and Parinal and large town in Sialkot. Of the plans of the Funda, the castern portion covers an area of the Hindus (Khatriz, Aroras and Bantas) and of 101 millions. Last of Labore, the rainfall is everywhere so far sufficient that cultivation is possible without Irrigation in fairly favourable seasons, but over the creater part of the is everywhere so far sufficient that entitivation is possible without irrigation in fairly favourable seasons, but over the greater part of the
arra the margin is so slight that, except where
irrigation is employed, any material reduction
in the rainfall involves distress, if not actual
familie. Within the eastern plains lie the large
system, and the Pathans of the Attock any
districts of Labore and Amelican and the popular.

Mianwall districts of the Attock any In the sample diverges distress, it not actual about half a minou and maintain their contains. Within the eastern plains lie the large system, and the Pathans of the Attock and cities of Lahore and Amritant, and the popula- Mianwall districts. Pathans are also found then in comparison with the western Punjab scattered all over the province engaged is

anted Civilians) and one or more Extra A-ordalizations. In Jimiled, to sails not exceed to the form a substitution of the sails not exceed to the first and commissioners (Provincial Civilians). In Jimiled to sails not exceed to the provincial Civilians). In Jimiled to sails not exceed to the provincial Civilians. In Jimiled to sails not exceed to the provincial content and the co court of Wards), the three Chief Engineers insiters in which easily courts that Inspector-General of Police, the United the Large large was the large control of Police. The Inspector-General of Police, the United the United States are the States which the Purple and of Prisons, the Inspector-General of Civil are the States of Agriculture and Industries, the Inspector-General of Agriculture and Industries Inspector-General, the Director of Recommendation of Industries and Industries and Industries and Industries and Industries Industries

Telegraph Engineering, and the Agint, North-Western Railway, represent Imperial Depart-ments under the Government of India. Justice.

to a Chief Court, which is the final appellate matherity in civil and criminal case, and has made mainly included in cases of the district many from a cross of the land revenue where European British subjects are charged with serious offences and original civil jure diction in special cases. The Court state that the four pulsare judges (either Civilians or barristers), a sixth additional judge whose appointment is sanctioned for two years and a seventh is the force. Where the treative principle ment is sanctioned for two years and a seventh is in force as retained but district branch and ment is adoctioned for two years and a seventh and eighth additional judge whose appointment is anottioned for one year. For some Transpart there has been a strongth supported movement in the province in favour of thing.

The Court of the strong of the last two courts and a seventh in the elections, except in a few cases where sectarian fellows must high. the Court to the status of a High Court, and the Court to the sames of a tigh court, and the Ender the present system of decentralisa proposal though the change will not take effect from in finance, the Imperial Government delegations of the change will not take effect from in finance, the Imperial Government delegations of the change will not take effect from in finance, the Imperial Government delegations of the change will not take effect from in finance.

no the bighest Court of Revenue jurisdiction, require the extraction of the typer Court-ind heads of the departments of Land and Spield Revenue Court to dealth all signature Revenue and of Agriculture and the secretary that the first and courter Court of Words), the three Chief Engineers, matters in which could court have no larrance

over a tabell. There bullet ere compared of members either countaind for direct manor defeal by the people and they are empored of to spend the finds at their disposal of The administration of in-tier is contrasted schools and dispersarity, as marked to a Chief Court, which is the final appellate them rows and rest into and governal improvementationity in civil and criminal cases, and has a the finals of district beards are de-

Finance.

illiatter the war. Subordinate to the Chief Court gates to the Punjab Government the control are the District and Sessions Judge (22 in of expenditure on the ordinary administra are the District and Sessions Judge (22 in of expenditure on the ordinary administra number) each of whom exercises citil and crime—tive extract together with the whole or a cerual intelligation in a civil and sessions distant tan proportion of certain heads of revenue comprising one or more districts. They sufficient to meet those charges. Of the values most of the first appeals in Civil rous heads of recenue post office, telegraphs appeals from the district and first class magistrates. One or two divisions have an additional judge and in many districts a Subordinate Judge exercising unlimited civil jurisdiction, is appointed to against the District Judga but the majority of civil sulfs are tried in the first

Public Works.

As was third in the section on "Administration" the Riche Works Department is divided by the continuous for Ridlings and Rocket for Ridlings and Rocket for Ridlings and Rocket for Ridlings in the four at track, we do the Chief Enginer, the four at track, we do the Chief Enginer, the four at track, we do the Chief Enginer, the four at track, we do the Chief Enginer, the four at track, we do the Chief Enginer, the four at track, we do the Chief Enginer, the four at track, we do the Chief Enginer, the four and the Lorer Bari Doab Canals. The superior that work is the level crossing at Ballok, 40 miles from Labore, where the Upper Chenab canal supply is passed across the Rocket and Board and Rocket Bari Doab Canal. The revised of the cost of the whole level is 10 millions. The scheme is expected to serve an area of 1,570,000 acres and 10 Vectories in classes. eireles and 10 Executive Engineers in charge of divisions. In addition to the work of con-structive and maintenance Irritation Officers are responsible for the as essuent of water rates leviable on tributed areas and in several districts where the find revenue demand is arrested on the fluctuating principle, for the formulation of this demand on irrigated crops as well.

Irrigation.

The canal system of the Punjab is admittrdly one of the greatest achievements of British rule in India. Not including the enormous Triple Canal project recently completed, the total irricated area in British districts Native States amounts to 8,269,233 The Beas is the only one of the great rivers of the province from which no canal takes off. The Indus provides supplies for two large series of inundation canals, one on either bank. Taking off from the Jindum is the Lower Jiedum perennial canal, with 100 wiles of more dependent of 100 miles. with 150 miles of main channel and 1,000 miles of distributaries and lower down the river is a large series of inundation canals. The Lower a large series of inundation canals. The Lower Chenab perennial canal takes off from the Chenab and comprises 427 miles of main channel and branches and 2,278 miles of branches, while below the junction of the Chenab and Rayl rivers is a series of inundation canals on both banks. The Rayl provides supplies for the Upper Bari Doab Canal, which has 370 miles of main line and branches and 1,571 miles of distributaries. Some small inundation canals and the Sidhani system with a length of 200 miles also take off from the Rayl. length of 200 miles also take off from the Rayl. The Sirhind Canal, which has a main line and branches of 538 miles and distributaries amounting to 3,703 miles, takes off from the Sutiel, and there are two systems of inundation cannals deriving their supplies from the Upper and Lower Sutiel respectively in addition to the Grey Canals maintained on the cooperative system in the Ferozepore district and a vast There are in the province nine arts colleges series of inundation canals in Dahawaippr (one of them Oriental); 6 professional col-State. The Western Jumna Canal, which leges for males and 1 for females; 111 High

he, that properly a state of the set from the right lank of the Jumm, he, that properly a state of the first from the right lank of the Jumm, he that results of the first from the right lank of the Jumm, have main line and lambles of 277 miles and difficultaries of 1,761 miles. The Triple of 1,761 miles from the Jumm and the Clemb to supple the first from the Jumm and the Clemb to supple the first from the Jumm and the Clemb to supple the first from the Jumm and the Clemb to supple the first from the Jumm and the Clemb to supple the first from the first through which the supply the first form the first through which the supply sharped in the first supple the first first

Rallway Police. The combined force is under the control of the In-pector-General, who is the control of the in-pector-general, who is a member of the razetted force and has under him three Deputy Inspector-Generals, for the Eastern (Ambala), Central (Lahore) and Western (Rawalpind) langes reprecively and a fourth Deputy Inspector-General in charge of Railway Police, Criminal Investi-cation, the Police Tmining School and Finger Print Bureau at Phillaur. The Railway Po-lice are divided into two districts, Northern and Southern, each under a Superintendent. The District Police are controlled by Superintendents, each of whom is in charge of a district, and has under him one or more Assistant Superintendents. The district is divided into circles under charge of Inspectors, and again into thanas in charge of a Sub-Inspector. The staff of a thana consists on an average of one Sub-In-pector, two head constables and 10 constables. A service of Provincial Polico officers has also been established consisting of 18 Deputy Superintendents, who are emissions. ployed as assistants to the Superintendents. The total police force of the province exclusive of gazetted officers, consists of 080 officers and about 20,000 men, practically half of whom are armed with revolvers and bored out rifles. The village police or chaukidars are under the control of the Deputy Commissioner of each district not of the Police Superintendent The cost of the Police Force is 62! lakhs.

Education.

Although the Punjab is usually considered rather a backward province, education has made great strides especially in the last ten years. Government maintain the Govern-ment College at Labore, the Central Training ment College at Lahore, the Central Fraining College at Lahore, a Training Class for European teachers at Sanawar (Simla Hills), normal schools at the headquarters of each division, and High Schools at the headquarters of each district, and the Lawrence Military Asylum at Sanawar for European children.

schools for boys and 43 for girls; 4,552 Pri-mary Schools for boys and 878 for girls; 54 schools for special instruction for boys and 12 for girls. The number of pupils attending schools of all classes is 332,043 boys and 47,446 girls. The nine arts colleges are:—The giris. The nine arts colleges are:—Ine Government, Oriental, Forman Christian, Dayanand, Islamia and Dayal Singh Colleges at Lahore; Khaisa, Amritsar; Murray, Sialkot; Gordon, Rawalpindi, Professional education is represented by the Law, Medical and Vcterhary Colleges at Lahore, the Agricultural College at Lyallpur, the Clerical and Commercial School at Amritsar, the Engineering School at Rassi, the Mayo School, both Art and the Railway Technical School, both of Art and the Railway Technical School, both at Lahore. There are eight Industrial Schools in the Province maintained by Municipali-ties or District Boards and others maintained by Missionary bodies, the Arya Samaj, etc., which receive grants-in-aid. The education of the domiciled community is provided for by a number of secondary boarding schools in hill stations and of primary schools in the plains. The aristocracy of the province is provided for by the Altchison Uniets' College for boys and the Queen Mary's College for sirks, both at Labore. girls, both at Lahore.

The Education Department is administered by the Director of Public Instruction, who has under him an Inspector of Schools in each civil division with two or more assistants, civil division with two or more assistants, in each district Inspector, with assistants, in each district, two Inspectresses of grifs schools and an Inspector of European schools. Higher education is controlled by the Punjab University (incorporated in 1882) which has the Licutenant-Governor as ex-officio Chancellor, a Vice-Chancellor appointed by Government and a Senate, in addition to the nine arts colleges already mentioned and the Law and Micdical Colleges at Labore. St. Stephen's Medical Colleges at Labore, St. Stephen's College, Delhi, and the Hindu College, Delhi, and six other colleges in Kashmir, Patlala, Patla, Patlala, Patlala, Patlala, Patlala, Patlala, Patlala, Patlala, Bahawalpur, Kapurthala and the North-West Frontier Province are affiliated to the Punjab University.

Medical.

The Medical Department is controlled by the Inspector-General of Civil Hospitals (a member of the Indian Medical Service) who also supervises the departments of the Chief Plague Medical Officer and the Chief Mataria Medical Officer. Sanitation is controlled by the Sanitary Commissioner (also a member of the Indian Medical Service) who has under him two Deputy Sanitary Commissioners and is advised by the Sanitary Board, with the Sanitary Engineer as Technical Adviser. Medical work in the districts is in charge of the Civil Surgeons, of whom fourteen before the War were members of the Indian Medical Service and others Military Assistant Surpeons and uncovernanted Medical Officers, chiefly Civil Assistant Sur-ceons. The Mayo Hospital at Lahoro and ceons. The Mayo Hospital at Lahore and special railway, canal and police hospitals are maintained by Government, but the ordinary borpitals and dispensaries in the districts are maintained by municipal or district are maintained by municipal or district. Lala Jowahar Lal Bhargava.

Raizada Bhagat Ram.

Sayad Makhdum Rajan Shah.

Dewan Bahadur Dewan Daulat Rai.

Schools for boys and 16 for girls; 241 middle | Mayo Hospital at Lahore has been greatly extended and improved as a memorial to King Edward VII, and was formally opened by Lord Hardinge in December 1915. The total number of patients treated at all hospitals and dispensaries in the year is over four and a half millions, including nearly 75,000 in-patients. A temporary department to combat plague has been organised under the Chief Medical Plague Officer. In the districts the Civil Surgeons are generally in charge of the operations against plague, but additional officers are employed from time to time. There is only one lunatic asylum in the Province at Lahore, but there are ten leper asylums. The Pasteur Institute at Kasauli performs the functions of a provincial laboratory for the Punjab. Vaccination is supervised by the Sanltary Commissioner, but is more particularly the concern of the Deputy Sanitary Commissioner, who has under him a special staff. Civil Surgeons also have a local staff of vaccinators under them.

Administration.

Lieulenant-Governor, Sir M. F. O'Dwycr, K.O.S.1. Assumed charge 1913.

PERSONAL STAFF.

Private Secretary, Lieut.-Col. E. C. Bayley, OLE., LA.

Honorary Aides-de-Camp, Lleut.-Col. W. T. Wright, Hony Capt. Ghulam Muhammad Khan. Hon, Capt. Surja, and Hon, Capt. Bishan Singh.

LEGISLATIVE COUNCIL.

President, The Lieutenant-Governor.

MEMBERS.

Nominated.

H. J. Maynard, c.s.r., 1.0.s.

D. W. Aikman.

O. F. Lumsden, 1.0.3.

J. A. Richoy.

Col. II. Hendley, M.D., L.M.S.

H. D. Craik, L.C.S.

C. A. H. Townsend, I.C.S.

P. J. Fagan.

S. W. Gracey.

Sardar Bahadur Gajjan Singh.

Khwajah Yusuf Shah, Khan Bahadur, Rai Bahadur Ram Baran Das, C.I.E.

J. P. Thompson.

Ral Baladur Pandit Sheo Karayan,

Nawab Sir Bahran Khan.

E. W. Parker.

Sardar Bahadur Risaldar Pariab Singh.

Pikhan Salan Laj at Labora, 1940, Malammad Amin Aban at Shumatad, Dungan Laj Chred,	H. A. Clore (NW. Frontier Province). University of Forests, R. McIntosh, Imporbational of Civil Hospitals, Colonel
Educated by Mero Ikiany Office Khing	Hareld Hendley, M.D., L.M.S.
Rich Brichler for of Minds Shift,	Scalary Coronictioner, LtCol. Sydney
Wron Billioter Mon Part-p-Rassin,	Browning Smith, D.P.H., I M S. Irepr tor-General of Pelsons, Major E. L. Ward.
Secretarian.	Accountant General, Jyotish Chandra Mitra,
C'll Statist, J. P. Thomp in Les.	Postmarter-General, Charles Holmes Harrison
Receive Secretary, H. D. Criffe, Los.	1.0.4.
Plannel's Services, O. P. Launeden,	Registrat of Co-Operative Credit Societies
Registers, James Alfred Welton.	and Joint Stock Companies, H. Calvert, D.S.C.
Puplic Wolks Dipartment.	LIEUTENANT GOVERNOES OF THE PUNJAB.
g Irrigation Benneh.	Sir John Lawrence, Bart., G.C.B 1859
•	Sir Robert Montgomery, R.C.B 1859
Secretaries, P. W. Woods; W. F. Holms.	Donald Pricil McLeod, c.n 1865
Buildings and Roods Branch.	Major-General Sir Henry Durand, 1870 E.C.S.L., C.B., died at Tonk, January 1871.
Secretary, D. W. Alkman, C.LT.	R. H. Davles, c.s.t 1871
RIVENCE DIPARTHEST.	R. E. Egerton, c.s.t 1877
Financial Commissioners, H. J. Maynard, 18.5., and P. J. Fagan, 1.6.5.	Sir Charles U. Altehison, E.C.S.I., 1882 C.I.E.
Director of Agriculture and Industries, C. A.	James Broadwood Lyall 1887
H. Touncerd, B.A., I.C.S.	Sir Dennis Fitzpatrick, K.C.S.I 1892
Director of Land Records, Inspector-Gent. of	William Mackworth Young, C.S.I 1897
Registration, and Registrar-General, D. J. 10yd.	Sir C. M. Rivaz, E.C.S.I
MISCELLANEOUS APPOINTMENTS.	Sir D. C. J. Hibetson, E.C.S.I., resigned 1907 22nd January 1908.
	T. G. Walker, C.S.I. (offg.) 1907
Richer, M.A.	Sir Louis W. Dane, K.C.I.E., C.S.I 1908
	James McCrone Doule (offg.)

The Province of Burma lies between Assem, on the North-West and Chica on the hortle. The Irresplance of the analysis of the Exact and South-West and Seance the South-West and South-West The Province of Burnes line between Assert, independent and other to consider potential to the activity of the first the control of the cont fertile valleys in between, will rive and free fertile valleys in between with the hold of the first of the West are the high little of the first of the fir tening out as they appressed the source of the West are the light hills of the Source of action to make the seepery of Burna (secretar)

The People.

The total regulation of Burnes at the ceres, of 1911 was 19,115,217. Of this total, 7 642,201 are Burmans, 936,429 shape, 919,641 Karter, 239,033 Rachine, 300,456 Chin, 014,152 Ara kanese and 320,629 Falaines There is also a large allen population of 105,577 Chine and about 600,000 Indians, while the European

The Burmans, who form the bulk of the population, belong to the Tiletan group and their language to the Tibeto-Chinese family. They are essentially an agricultural property of the control of the agriculture of the country being the their hands. Their chief concern to their their control of the country being their control of their chief concerns to their their control of their chief control of the chief control of t fields and their jagoine. The inter at tal n by the Durmese in the course of the war, their response to the call for remut, and their greeners contributions to war loans and charital is fundeem to show that their apachy towards the Government of the country is giving way to an fatclicent loyalty to British rul. In appearance the Burman is usually somewhat short and thick set will Mongolian features. His dress is most distinctive and exceedingly comfortable. It consists of a 4llk handkerchief was not approved bound round his fortherd, a loss stacket on his body and a long skirt of loongy) tied round his waith, reaching to his antile. The Burman women, Perhaps the most pleasing type of life, reaching the first lead a free and op a momen and in perty trading. Their dress is topplation. The next total coupled area in 1916-17 was 14,114,225 acres in 1916-17 was 14,114,225 body and a long skirt of loongy it led round his

The first transport of the form of the property of the propert the property of the sector of the sector of the file of the sector of th Marthy to Ladie.

The English sections in the section of the section t H's and ed mis stall of the first process the for any deriver each place that the state and the form of the most arms for the first property of the first and the first property of the first and the first and the first and the first arms of the first and the first arms of th Road and Communitations will and out effort rapid impersement to a further come as allable. The impered grant or feelights of mad over the porting tood detel never and the Maderal to provide finds by to anciota tax escribed exports

would, for give and well grouned imprises lany for export. In 1913-16 the actual exports were position with any moman in the world, come than in any of the previous nine year except 1911-12, and the price realized six cross-

the reservoir to the first ter default. In into bearing production increases rapidly. The Parent. Course for tomas of I may experts of rubber have more than doubled in recent higher fitter diexer fell low 27-10-0, two years and in 1916-17 exceeded 1,000 tons. the few yest the direction to a Lemon try year and in Library exceeded 1,000 tons, explicit with in a real of \$155.10 for But the fluiding of new ground le not on a scalo the few yest the direction and Govern-ties and findly few ty over 10,000 tons to ment have adeayoured by free grants of suitable 200 204, yelled at Rs. 22.16.14.000 cr. about land to stimulate plunting. On this as on other two god a fall era a tien than in 1915-16 industries of Burma the mischievous acti-In its took north helf the expert. These torms viths of the company promoter during the 19 per read of the total expert. Over \$1,000 per at "boom" cast a blight from which it is two of cotton were produced, 100,000 tons of only just a covering. The bulk of the rubber is re usdants, and 0 decretors of esamum. Male grown in Teness rim division, but there are (15,600 tops) and taillet (70,000 tops) are the large plantations near Rangoon and in the tth relatifiery .

Potest play an Important part in the Induritial fits of the Province. The total area of re-creed and unclassed forests is 112,026 square miles, Wood is extracted by lessees, of whom the Bombay-Burma Trading Corporathen and Meders, Steel Brothers are the principal, In 1914-15, Government extracted 65,000 tons of teak, while purchasers extracted 250,000 100%

A third important, branch of industry consists of working mines and quarries, in which Burma is particularly rich. The p-troleum fields are in the Dry Zone, chiefly at Yenangyaung in the Magwo where the principal extractor is the Burma Oil Company. The total output of petroleum for! the Province in 1916 was 2917 million gallons, the highest yet recorded. In the Ruby Mines District, the Burran Ruby Mines Company at Morok produced in 1016 stones valued at £37,500. 1,982 ounces of gold were won by the Burma Gold Dredging Company from the bed of the Irrawaddy River, north of Myltkyina.

The Itirnia Mines Company at Bawdwin in the Northern Shan States produced 14,000 tons of argentiferous lead ores, from which were extracted lead worth over 48 lakhs and silver worth over 131 lakhs, and 16,000 tons of iron ore valued at Re. 61,000. Block tin and tin ore to the amount of 610 tons valued at 92 lakhs were mined it the Tena-serim division. The demand for zinc due to the opening of zinc smelting works in England caused the output of zinc one from the Bauciwin mines to rise from 57 tons in 1915 to 3,193 tons valued at Rs.87,000 in 1916. In Amherst district 1,000 tons of antimony ore worth R4, 75,000 were won. The Tawinaw Mines of the Myithyina District produced 189 tons of Jade, valued at Rs. 1.4 lakhs.

Tungsten ores, chiefly wolfram, are mined in Tavoy, Mergui and the Southern Shan States. Burma is the chief source of the world Burma is the chief source of the world supply of these ores. Special measures were taken by Government to encourage the output in consequence of the need of wolfram for purposes connected with the war. These measures included the appointment of special officers and the importation of labour from China and India. The output rose from 2,545 tons valued at its, 42,65 lakhs in 1915 to 3679 tons valued at Rs. 72.91 lakhs in 1916. The full effect of the measures taken to improve communications and facilitate output in the mining area has not vet been felt.

The area under rubber increased during the year 1016-17 by 1,414 acres to 50,257 acres. wet zone of Upper Burma near Myltkina.

Manufactures.

There are 403 factories, 311 of which are engaged in milling rice and 110 are sawmills. The remainder are chiefly cotton ginning mills, oil mills for the extraction of oil from groundnuts, and oil refineries connected with the petroleum industry. The average daily num-ber of operatives rose from 66,352 in 1915 to 64,632 in 1916. The increase was chiefly in rice-mills. At the Census of 1911, 469,743 or only 6.6 of the total population were engaged outside agriculture and production.

As is the case in other parts of the Indian Empire, the imported and factory-made article is rapidly ousting the home-made and indigenous. But at Amarapura in the Mandalay District. a revival has taken place of hand slik-weaving. Burman wood-carving is still famous and many artist, in silver still remain, the finish of whose work is sometimes very fine. Bassein and Mandalay parasols are well known and much admired in Burma. But perhaps the most famous of all hand-made and indigenous industries is the lacquer work of Pagan with its delicate patterns in black, green and yellow traced on to a ground-work of red lacquer over hamboo. A new art is the making of bronze figures. The artists have gone back to nature for their models, breaking away from the conventionalized forms into which their silver work had crystallized, and the new figures display a vigour and life that make them by far the finest examples of art the province can produce.

Trade.

The total value of the foreign trade in 1916-17 was 3,130 laking, an increase of 18 per cent, compared with the previous year but 850 lakins below the returns for the best year before the war. Imports amounted to 1,185 laklis or 9 Per cent. more than in the previous year. Rangoon, the only port with facilities for distribution, took 80 °07 per cent. of the foreign trade and 82 '47 of the Indian trade. Indian trade rose from 2,631 to 2,805 lakhs. The net customs duty was 1651 lakts or 26 per cent. more than in 1915-16. The shortage of shipping and the enormous cost of freight continued to hamper trade. Only articles of export required for war purposes such as lead, wolfram, rubber and cotton, show any marked increase. The exports of rice and paddy to foreign countries totalled 1,215,277 tons, 25 per cent. more than in the previous year, but over 40 per cent. less than in 1912-13. Increase of prices accounts for a considerable part of the increase of total The plantations are young and as the trees come trade, but after allowances have been made for

the inflation of prices it is clear that there was a great recovery during the year.

The most important item of merchandise Imported into Rangoon is manufactures of cotton, which account for 32 per cent, of the total import trade. These imports are valued at Rs. 376 lakhs. In 1915-16 the United Kingdom took 44 per cent, and the rest of the British Empire 26 per cent, of the total import and export trade of the province.

Administration.

In 1897 the Province, which had formerly been administered by a Chief Commissioner, was raised to a Lieutenant-Governorship. The head of the Province is therefore now the Licutenant-Governor. He has a Council of seventeen members, one of whom is elected by the Burma Chamber of Commerce, one by the Rangoon Trades Association and the remaining fifteen are nominated by the Lieutenant-Governor Not more than seven members may be official; the rest must be non-officials and at least four must be selected from the Burmese population, one from the Indian and one from the Chinese community.

Burma is divided administratively Upper Burma (including the and Chin Hills) and Lower Burma. Shan States are administered by the Chiefs extent. of the States, subject to the supervision of the is rested in the Chief of the State, subject to tion. the restrictions contained in the sanad. The law administered is the customary law of the State.

The Chin Hills are administered by a Superintendent

the Lieutenant-Governor are eight Under Commissioners of divisions, four in Upper and four in Lower Burma. Commissioners in Upper Burma and the Commissioner of the Arakan Division are ex-officio Sessions Judges, but the other three Commissioners have been relieved of all judicial work.

Under the Commissioners are 40 Deputy Commissioners including the Police officers in charge of the Hill Districts of Arakan and the Salween District, who exercise the bowers of Deputy Commissioner. Deputy Commissioner Deputy Commissioner Deputy Commissioners are also District Magistrates, Collections of Order Deputy Commissioners are also District Magistrates, Collections of Order Commissioners are also District Magistrates are also District Magist tors, and Registrars, except in Rangoon, where there is both a District Manistrate and a Collector. Subordinate to the Deputy Commis-sioner are Assistant Commissioners. Extra Assistant Commissioners and township officers, called Myooks. in the villages are the village headmen, thuryle, assisted in Lower Rurma by the Seeingaungs (rural policemen in charce of ten houses). The revenue administration is controlled by a Financial Commissioner assisted by two Secretaries. Subordinate Departments are in charge of a Commissioner of Settlements and Land Records, a Director of Arriculture, a Superintendent of the Civil Veterinary Department and a Registrar of Co-operative Credit Societies.

Justice.

The administration of Civil and Crimmal Justice is under the control of the Chief Court of Lower Burma with five judges, and of the Judicial Commissioner, Upper Burma, with an Assistant Judicial Commissioner. There are seven Divisional and eight District Judges. There are also separate Provincial and Subordinate Judicial Services. Divisional Judges are also Sessions Judges. The Chief Court at Rangoon is the highest Civil Court of appenland the highest court of Criminal appeal and revision in Lower Burma. It is also the High Court for the whole of Eurns (including the Shan States) where European British subjects are concerned. It is the principal Civil and Criminal Court of original jurisdiction for Rangeon Town and hears appeals from all sentences of Courts and magistrates exercising jurisdiction in Rangoon Jown.

In Criminal and Civil matters the Judicla Commissioner of Upper Burma exercises the power of a High Court for appeal, reference and revision, except in respect of criminal cases in which European British subjects are concerned.

into All village neadmen nave minited are also powers and a considerable number are also All village headmen have limited Magisterial Shan Stares powers and a considerable number a limited

In pursuance of the policy of decentraliza-Superintendents in the case of the Northern tion steps were taken in 1917 to restore to the and Southern Shan States, and to the super-villace heading the power and influence which rision of the Commissioners of the adjoining they possessed in burness times before the Divisions in the case of the other States. The centralizing tendencies of British rule made them Civil, Criminal and Revenue administration practically subordinate officers of the administration to the Commission of the Commission

Manicipalities.

The Bangoon Municipality is the most important, with an income of Rs. 44'19 laking and an expenditure of Rs. 45'27 laking. The Chairman is a member of the Indian Civil Service of Deputy Commissioner's rank. The members of the Constitution of the Chairman of the Constitution of the Cons members of the Committee are elected by wards.

There are 44 minor Municipalities, of which the most important are those at Mandalay and Moulmein. The average incidence of Municipal taxation is Rs. 2-0-5, but in Rangoon ıt reaches Rs. 11-11-9.

Local Funds.

from a 10 per cent. cess on collections of ordinary local revenue and from collections from markets, ferries, slaugnter houses, etc. The total receipts amount to 35.44 lakhr.

in Upper Burma, there are District Funds. They are derived from market, ferry and license fees and occasional grants from Provincial revenues. The total revenue was 0.34 lakhs.

The decrease of over three lakhs compared with the previous year is due to the fact that in that year Provincial Funds contributed over four lakhs for the construction of roads.

There are 7 Cantonment Funds, 19 Town Funds and, excluding the Rangoon Port Trust, 6 Port Funds

ICP.

As in the care of all offer Proximes, the Police. Evarres of I'm a mretered on a "Prosmolal! District of First Art Cred on a "Productal The superiord strings of the Civil Police retailment." In the case of Prima, it came from the end of 1916 was 1,363 officers, and the first place of the first place of the first place of the first place of the superiord depart. The strict of the minister were 42 officers and the collection profits of the converted depart. The strict of the Military Police on the 1st ments, such as Posts and Telegraph, and in January 1917 was 16,421 officers and men. The Rangoon Town Police stand at 102 officers and 1,236 men. arthogetre, if to for ra Corfe ter, Salt and O; lum. But as the brane from these scarces is in Police. Its officers are deputed from the Ricerale for the purpose of meeting the cost Indian Army. The rank and file are recruited of the Ingerial services, exclud arrange meets from natives of India with a few Kaching, are not to as with other Provinces for the divis Kan as and Shans. The experiment of recruitalso of the remaining sources of revenue between Ing Burmese on a su all scale has been successful, Impicial and Provincial Funds.

nere introduced into the Settlement. Briefly, the Local Government retains boths of the net Land Revenue in tead of a half, and the whole of and guards for Trasures. Jails and Courts the net Perest revenue. The following figures During the year 1016 the Military Police furnishshow the greet revenue and expenditure for ed 2.611 volunteers who were drafted into 1015-16:--Exrenditure.

Total to to	Bereipte. Bs.		Expenditure. Rr.	
Impetial	065124	lakhs		laklıs
Provincial	554.82		604.02	81
District Funds	41.18	11	53.12	11
	101.24	**	112:29	**
Other Funds	76'35	**	74.00	P.º

The Imperial Government makes a fixed annual resignment to the Burma Government Under the settlement of 1911 this assignment was fixed at Rs. 12,90 lakhs. The total contributlons from Imperial Funds during the year 1917-18 amounted to Rs. 46.03 lakhs. From April 1st, 1915, onwards the Government of India has allotted an ad litional recurring grant of its, 16:11 lakks to the province, and has further guaranteed to the province a minimum acgregate of revenue advancing by Re. 8 lakits annually until 1923-24. No payments under this guarantee will be made till after the war but it will have retrospective effect from the year 1011-12.

Public Works.

This Department is administered by two Chief Engineers who are also Secretaries to Government in the Public Works Depart-ment. There are eight SuperIntending Engineers (including one for Irrigation and a Sanitary Engineer), 83 Executive Engineers and As-sistant Engineers. A Consulting Architect is attached to Head Quarters.

There are four Major Irrigation Works-Mandalay, Shwebo and Mon Canals and the Ye-U canal in the Shwebo District.

Police.

The Police Force is divided into Civil, Hill-tary and Rangoon Town Police. The first two are under the control of the Inspector-General of Police, the latter is under the orders of the Commissioner of Police, Rangoon, an officer of the rank of Deputy Inspector-General.

There are four other Deputy Inspectors-General, one each for the Eastern and Western Range, one for the Rallway and Criminal In- to read and write and an elementary and native

eve direction Department and one for the Military

The expetioned steingth of the Civil Police

A special feature of Burma 19 the Military The organisation is nallitary, the force being In 1916-1911, as a result of the Report of disident dutations. The object of the force the Departmental Committee, modifications is to supplement the regular troops in Burnathe Their duties, apart from their military work, not is to provide executs for specie, prisoners, etc. Indian regiments on active service, making 5,214 since war began. This number has been raised to over 7,000 in 1917.

Education.

At the head is the Director of Public Instructon with an Assistant Director of There are 6 Inspectors of Schools belonging to the Imperial and one belonging to the Provincial Service, and 7 Assistant Inspectors belonging to the Provincial Service. The Rangoon College is staffed by a Principal and nine Professore drawn from the Imperial Service with three from the Provincial Service. Outside the Education Department is the Educational Syndicate, which holds certain examinations and serves as an advi-ory body on educational questions referred to it by Government, A system of Divisional Boards for the management of vernacular education has been sanctioned.

Pending the establishment of the Burma University at the end of the war, the Rangoon College and the Raptist College are affiliated to the Calcutta University. Under Government there are-

An Arts College, Law School, Reformatory School, School of Engineering, Apprentice School, High School for Europeans, High School at Taungayl for the sons of Shan Chiefs, 5 Normal Schools, 16 Anglo-Vernacular High Schools, 21 Anglo-Vernacular Middle Schools, and 60 Vernacular Schools.

Aided Schools, managed chiefly by Christian Missions, include 32 European Schools, 7 Normal Schools and 110 Anglo-Vernacular High and Middle Schools. The number of schools managed by Buddhist Societies is steadily increasing.

A remarkable feature of education in Burma is the system of elementary education evolved, generations ago, by the genius of the people. Nearly every village has a monastery (hpoongy). kyaung); every vinage and a monastery throught kyaung); every monastery is a village school and every Burman boy has, according to his religion, to attend that school, shaving his head and for the time wearing the yellow robe. At the hopongyl-kyaungs the boys are taught to read any write and an element and an attention.

- .

system of arithmetic. The result is that there are very few boys in Burma who are not able to read and write and the literacy of Burman men is 412 per mille.

Of these Monastic Schools 3,418 are registered under the grant in aid rules, receive Government aid, according to the Code and are regularly inspected.

Another feature of education in Burma is the excellent work of the American Baptist Mission, which has established schools in most of the important towns in Burma, as well as Maung Nyun, a College in Rangoon.

The Imperial Idea Commission which sat in 1016-17 drew attention to the fact that considerably more than half the A. V. Schools in the province, are controlled by Missions and nearly half by foreign agencies.

Medical.

The control of the Medical Department is vested in an Inspector-General of Civil Hospitals. Under him are 41 Civil Surgeons. There is also a Sanitary Commissioner, two Deputy Sanitary Commissioners, an Inspector-General of Prisons, three whole time Superintendents of Prisons, a Chemical Examiner and Bacteriologist and a Superintendent of the Lunatic Asylum.

A Civil Surgeon is in charge of each District, while at the summer Head Quarters of Maymyo there is a special Civil Surgeon.

The total number of Hospitals and Dispensaries was 282 at the end of March 1916. The Rangoon General Hospital is perhaps the finest in the East.

The Pasteur Institute was opened in Rangoon in July 1915. The Director is a Senior Member of the Indian Medical Service.

The total number of patients treated in 1910 Was 2,110,548

The expenditure on hospitals and dispensaries in 1016 was 18 '73 lakha, of which sum Rs. 60,800 only were subscriptions and donations.

Administration.

Lieutenant-Gorernor, Sir Reginald Craddock.
Private Secretary, T. Lister, B.A., L.C.S.
Aide-de-Camp, Licut. M. B. D. Whiteside.
Honorary Aides-de-Camp, Captain S. D. Vale
LL-Col. H. B. Huddleston, Lt.-Col. J. W. William Brench-Mullen, C.I.E.

Indian Aftler-de-Camp, Hony, Capt. Muzastar Khan, Sardar Bahadur; Hon. Capt. Amar Slagh, Rei Bahadur. Subadar Maung Aung

> LEMSLATIVE COUNCIL OF THE LIEUTENANT-GOVERNOR.

Officials.

W. J. Kelth. Lt. Col E. C. Townsend. H. Thompson. J. C. Rutledge, M. A. Charles M. Webb. L.C.S. Bertram Sansmarez Carey. C. H. Wollaston.

Non-Officials.

Merwanjee Cowasjee. Lim Chin Tsong. Sir Sao Mawng, C.L.E. Abdul Karim Abdul Shakur Jamal C.LE. Francis Foster Goodliffe. Maung Po Tha. Dr. San Cromble Po, M.D. E. O. Anderson. J. E. Du Bern.

SECRETARIAT.

Chief Secretary, C. M. Wobb.
Revenue Secretary, W. J. Keith.
Secretary, P.W.D., C. H. Wollaston.
Officialing Joint Secretary, P. W. D., H. E. W. Martindell.

Financial Commissioner, H. Thompson. Officiating Senior Registrar, S. C. Buttery.

Miscellaneous Appointments.

Settlement Commissioner and Director of Land Records, R. E. V. Arbuthnot. Director of Agriculture, H. Clayton. Consulting Architect, T. O. Foster, F.R.I.B.A.
Superintendent and Political Officer, Southern
Shan States, G. C. B. Stirling.
Superintendent and Political Officer, Northern
Shan States, H. A. Thornton.

Director of Public Instruction Samuel William

Cocks, M. A. Inspector-General of Police, Lt.-Col. H. Des Vocux.

Chief Conservator of Forests, C. G. Rogers. Inspector-General of Civil Hosqitals, Percy Charles Hutchinson Strickland Sandary Commissioner, Lt.-Col. C. E. Williams. Inspector-General of Prisons, Major H. H. G.

Commissioner of Excise, Lieut.-Colonel T. L. Chief Customs Authority, Herbert Thompson.

Accountant-General, F. Dukoff Gordon.

Chief Comme

Chief Commissioners of Burn	no.
LieutColonel A P Pharma an	1862
Colonel A. Fytche, c.s.r. LieutColonel R. D. Ardagh	1867
THE HOD. Ashley Fdon acr	1870
A TO THOM DOOM IN SITE	1875
C. U. Aitchison, C.S.L. C. E. Bernard, C.S.L.	1878
C. H. T. Crost brenito	1880 1883
Sir C. E. Bernard race	1880
C. H. T. Crosthwaite, C.E.I. A. P. MacDonnell, C.S.I. (a)	1887
Alexander Mackensia c.e.	1889
D. M. Smeaton	1892
Sir F. W. R. Fryer, K.C.S.I.	1895
(a) Afterwards (by creation) - MacDonnell.	Baron

Mentenant-Governors of Burma.

Sir F. W. R. Fryer, K.C.S.L.	1897
The Date of Date of the Court o	1900
Sir Harvey Adamage	1910
ir Reginald Craddock	1917

Manufactures.

Oplum was formerly, with indigo, the chief manufactured product of Bihar, but in consequence of the agreement with the Chinese Government the Patna Factory has been closed. At Monghyr the Peninsular Tobacco Company have erected one of the largest cigarette tactories in the world and as a result tobacco is being grown much more extensively. There are two important fron works in the Singhbhum District. Messrs. Tata & Co.'s Iron and Steel Works at Sakchi and the Bengal Iron and Steel Company at Dhulia. Both these works possess considerable economic possibilities and are likely to have a far reaching effect on the iron and steel trade of India in the future. The Cape Copper Co. are aslo opening up copper mines at the Rakha Hills in the same district. The amount of Copper Ore extracted in 1915-16 was 8,010 tons. But by far the most important of the mineral industries in the province is that concerned in the raising of coal. The coalfields in the Manbhum District have undergone an extraordinary development in the past twenty years. The importance of the industry may be said to date from the opening of the railway from Rarakar to the opening of the railway from Farakar to Dhanbad and Katras in 1894. In 1894 the contturn of all the mines in the district was only 126,636 tons; in 1895 it rose to 1,281,294 tons, the enormous increase being almost entirely from the Jharla field. In the two succeeding years there was a set back, but from 1893 there was a steady rise in the outturn which first touched two million tons in 1901. In 1905 the outturn had swelled to nearly three million ton rais din the Jharla fields and 30 per cent. from the Ranigani coal fields of Bengal. The entrance of the Bengal-Nagpur Rallway into the Jharia field in 1904, and the sub-quent extension of various small loops and branches, besides innumerable sidings from both systems, the doubling of the line from Barakarto Dhanbad the coording of the section of the Grand and the opening of the section of the Grand Chord of the East Indian Railway from Dhanbad to Gomoh have all contributed to this rapid development. Giridah in Hazaribagh is also the centre of a considerable coal-mining industry containing, as it does, mines owned and work d by the East Indian Railway Company. The Bokaro-Ramgarh field in the same district is likely to be of great economic importance as soon as the area is fully opened up by the railway now under construction. It immediately adjoins the Jharin field across the Hazaribagh border. There is a large undeveloped coal tupply, it is believed, in the Districts of Palaman and thankingh. There are now 354 coal mines in this Province with an output of 10,711,356 tons. The war has demonstrated the great value of the mica mines in Hazaribach and Gaya which are now entirely controlled by

The Province is administration.

Governor in Council. The Lieutenant-Governor is appointed by the Crown and is a senior

Secretary, a Appointment Revenue and Municipal Secretaries.

member of the Indian Civil Service. He is assisted by a Council of three members, two of whom are dmwn from the Indian Civil Service, while the third, in practice, is an Indian. Each member takes charge of certain departments and in the event of any difference of o inion regarding inter-departmental references the matter is decided in Council. In practice all important cases are submitted through the member concerned to the Lieutenant-Governor.

The unit of executive administration is the District. The District Officer is styled District Magistrate and Collector, except in the Scheduled districts where he is known as the Deputy Commissioner. The ordinary district jalls are placed in charge of a Superintendent, usually the Civil Surgeon, while the Magistrate pays periodical visits of inspection. All District Officers are ex-officio Registrars; and as ex-officio Chair men of the Distitct Boards they bave control over primary education and are charged with the execution and administration of all local public works. In a word, the District Officer is the executive chief and administrator of the tract of country committed to him. As District Magistrate he is also local head of the magistracy and, as such, competent to try all cases, except the more important which are sent for trial at the Sessions, but except in the Scheduled districts he seldom presides in Court, and his share in this part of the administration is tion is practically confined to the distribu-tion of work, the hearing of petty appears and the general and t the g-neral superintendence of his subordinates, The latter combine revenue with magisterial functions and as Deputy Collectors exercise under hir control many of the powers of a Collector. The police, by whose aid he carries on the criminal administration, have as their local superior a Superior a Superior clor a Superintendent, who in all matters, except those concerning the discipline and internal economy of the force, has to carry out such Instructions as he receives from the District Magnetrate. The Sub-divisional Officers, who are Joint, Assistant and Deputy Magistrates in charge of portions of districts, occupy, to a great extent, in their own jurisdictions, the position of the District Own jurisdictions, the position of the District Officer, except in respect of the police, over whom they have only judicial and no executive control. There are 21 Districts.

Above the District Magistrates are the Divisional Commissioners. Their duties are principally those of supervision. In almost all matters they exercise a general superintendence, and especially in the Revenue Department they control the Collectors' proceedings. Commissioners are the channels of communication sifting, collating and bringing together in a compact form the information they receive for appeal and in this and similar matter is with this exception he is in subordination to Government direct.

The Civil Secretariat consists of the Chief Secretary, who is in charge of the Political, Appointment and Education Departments; the Revenue and Judicial Secretary, the Financial and Municipal Secretary and their three Under Secretaries.

appointment of both Chairmen.

grants from the Local Government and the: opening balance, total in 1015-16 Re. 46,-5,116 and the disbursements Re. 36,01,552 leaving a closing balance of Rs. 10,63,764, a large portion of which is carmarked for improvements in the as remain ration for his tradition Patna City Municipality.

Apart from Municipalities, each district with Tenancy Acts, the exception of the Santal Paranoss, Angul and Singhbhum has a District Board constituted under Bongal Act III of 1885. Municipal areas; are excluded in accordance with the provisions of section 1. Local Boards have been formed sions, except Rancht. There are at present is tants. The Commissions of England Sile Solutions to Region and Sile Solutions of Regions of Police 222 Union Committees in the Province.

Union Committees in the Province.

In accordance with the provisions of section 7 of the Act, a District Board is to consist of not less than 9 members. Local Boards are entitled to elect such proportion (as a rule one-half) of the whole of the District Board as the Lieutenant-Governor may direct. In districts where there are no Local Boards, the whole of the members are appointed by Government. Chairman of the District Board is appointed by Government; he is in practice always the Magistrate of the district.

Owing to the surrender by the Government of the Public works cess to the District Boards the latter are now wealthy local bodies, the total income being nearly 53 lakh-, or which 16 lakhs were spent on education and 7 lakhs on medical relief in 1915-16.

Land Tenures.

Estates in the Province of Bihar and Orlesa are of three kinds, namely, those permanently settled from 1793 which are to be found in th-Patna, Tirbut and Bhagaipur divisions, those temporarily settled as in Chota Nagpur and parts of Orissa, and estates held direct by Government as proprietor or managed by the Court of Wards. The passing of the Bangal Tenancy Act (VIII of 1885) safeguarded the rights of the Further, the Settlement Department under the makes periodical survey and settlement opera-tions in the various district, both permanenty monthly salary which is realized from the and temporarity settled. In the former, the lagers by the panelayat. The cost of rights of the under tenants are recorded and at-tested, while in the latter there is the next the tested, while in the latter there is the re-settlement of rents. In the re-settlement proceedings, rents are fixed not only for the landlords but also

The tentes of Orien are received in the exit. Chairman. In the remaining towns Governed Under the remaining that is, the properties ment has exerved to itself the power of appoint- I who took restlement from the result and and fry ing the Commissioners or Chaliman, as the case; revenue to Government direct, if a class of submay be, owing either to the backwardness of the ordinate preparation of the preparation of the property of the backwardness of the ordinate preparation of the preparation of the backwardness of the ordinate preparation of the preparation of the backwardness of the ordinate preparation of the preparation of the backwardness of the ordinate preparation of the preparation of Committelouera and purett a l'ander und affine remader These sub-proped four or properly tary total The total receipts of Municipalities including dates of the estates risk which their lends in tanks from the Local Government and their dates of the estates risk which their lends is casus, the rights of this is heading a last berecorded. The londness will to the teand is re possible to there raines a distantia

Both Origin and Clata Northur have their one

Police.

The Departments of Pelico, Pelicus and B. Atmilier are each und rithe general dir eilm Bow minert, supposed and trapelle by an Inspector-tien ral with a staff of assit-

three Deputy Inspector-fire ral and 27 super-intendents. There are also 27 Assurant superintendents of Police and 15 Digenty Superative dents. The force is divided into the District Pilice, the Radway Police and the Militar Police. A Criminal Investigation Reprinted has also been found. has also been formed for the collection and distribution of information relating to professional criminals and criminal tellus tener operations extend beyond a single district and to control, adet, and asset in investigations of crime of this class and other serious cases in which its assistance may be invoked There are two companies of Military Pena which are maintained as receives to deal with serious and organised disturbances and perform no ordinary civil duties. The work of the Railway Police is practically confined by offences actually committed on the full ways, ha they are under the control of the Deputy In sp ctor-deneral of the Criminal Investigation Department, and an important part of the duties is to exoperate with the Institct Police to protection of the contraction of th in watching the movements of had characte by rall. The prevention and detection of erig in the Province generally is entrusted to it District Police. In that work they are assistant of the control of by the rural police, known as chaukidars at daladars, who form no part of the regular for but are under a statutory obligation to refentitivators under the Permanent Settlement Act, all cognizable orime at the police station, a generally to assist in the prevention and det supervision of the Director of Land Records tion of crime. They are not whole-time serval

Education.*

The Department of Public Instruction for all the tenants. A settlement can be ordered controlled by a Director. There are 6 Divisi by Government on application made by raiyats. Inspectors of Schools, of whom one inst

The figures given in this paragraph relate to British territory only.

. Non-Officials.

. Rev. A. Campbell, D.D.

Mahataja Bahadur Sir Rayaneswar Protad Singh, K.C.I.C. Ral Bahadur Nishi Kanta Sen. Madha Sudan Das, C.I.E.

LIECTED.

Raja Haribar Parahad Karayar Singh. Babu Maheshwar Prashad. Kirtyanand Slagh. Babu Ganesh Lal Pandit. Kumar Thakurai G. Prusad Singh. W. A. Ironside. D. J. Reed. Moulyl Salyid Nurul Hasan, Saivid Ahmad Husain. Salyid Muhammad Naim. Khwala Muhammad Nur. Bishun Prasad. Dwarks, Noth Roi Rahadur, Lachmi Prasad Sinha. Braja Sundar Das. Sharat Chandra Sen. Purnendu Narayan Singh. Adit Prashad Singh. Kumar Sheonandan Trasad Singh, Babu Gorabandhu Das. Shyam Krielina Sahay.

SHILLTAUAT.

Chief Secretary to Caremourt, Pataliel, Are polishment, and Educational Department, II. McPaurion.

Secretary to Govern ent. I is uncivil and Music eight Departments, J. D. Sitton.

Sterebary to Government, Liveen. - Department, H. Coupland,

Secretaries to Gorenmunt (P. W. D.), Indication Branch, F. Clayton.

Buildings and Roads Branch, D. G. Stant).

BOARD OF REVENUE.

Meicher, E. H. C. Walsh.

Miscellandous Appointments, 2. J. Director of Public Instruction, 3, G. Joséann, H.A.

Inspector-General of Police, R. T. Doulas. Conservator of Parests, H. H. Haines.

Inspector-General of Cuil Hospitale, Col. G. J.

Sanitary Commissioner, I.t.-Col. E. C. Hare 1.R.S. Inspector-General of Prisons, Lt.-Col. Raws

Jiwan Singh.

Accountant-General, V. C. Scott.-O'Counor.

Director of Agriculture, G. Milne.

The Central Provinces and Berar.

The central Provinces and Berar compose great triangle of country midway between ombay and Bengal. Their area is 130,001 liles, of which 82,000 are British territy proper and the remainder held by Feuda-yry Chiefs. The population (1011) is 13,916,308 ader British administration and 2,117,002 in the Feudatory States. Various parts of the entral Provinces passed under British control different times in the wars and tumult in the first half of the 19th century and the several brits were amalgamated after the Mutiny. ne arst antior the 19th century and the several harts were amalgamated after the Mutiny, i 1801, into the Chief Commissionerable I the Central Provinces. Berar was, in 1853, issigned to the East India Company as part of a financial arrangement with the Kizam and was transferred to the Central Provinces in 1903, as the result of a fresh agreement with the Nizam with the Nizam.

The Country.

The Central Provinces may roughly be divided into three tracts of upland, with two inter-vening ones of plain country. In the north-west, the Vindhyan plateau is broken country, covered with poor and stunted forest. its precipitous southern slopes arreches the dch wheat growing country of the Nerbudda valley. Then comes the high Satpura plateau, haracterised by forest-covered hills and deep atter-cut ravines. Its bills decline into the nter-cut ravines. Its bills decline into the Nagpur plain, whose broad stretches of shallow black cotton soil make it one of the more inportant cotton tracts of ladia and the weal-niest part of the C. P. The Eastern half of the plain lies in the valley of the Wainganga and is mainly a rice growing country. Its "merous irrigation tanks have given it the me of the "lake country" of Nagpur. Furse cast is the far-reaching rice country of attigrarh, in the Mahanadi basin. The southst of the O. P. is again mountainous, containat the C. P. is again mountainous, containing 24,000 square miles of forest and precipious rayines, and mostly inhabited by jungle ribes. The Feudatory States of Bastar and Lankar lie in this region. Berar lies to the puth-west of the C. P. and its chief characteristic light with black contensability lains. 'e is its rich black cotton-soil plains.

The People.

The population of the province is a com-aratively new community. Before the advent if the Aryans, the whole of it was peopled by see Gonds and these aboriginal inhabitants tred better from the Aryans than their like most parts of India because of the rugged ature of their home. But successive waves I immigration flowed into the province from I sides. The early inhabitants were driven to the inaccessible forests and hills, where we now instituted a large portion of the tribes to the innecessible forests and hills, where by now instituted a large portion of the tribes | those parts, who form a quarter of the whole ipulation of the C. P. The Gonds are still und in large numbers in all parts of the project, but they are partially concentrated in a south-cast. The main divisions of the we comers are indicated by the language difference of the province. Hindi, brought in the Rindustani-speaking peoples of the North, future developments of the natural wealth of trails in the North and Last; Manthi in the prosince, August is the child under the

The central Provinces and Bernr compose Bernr and the west and centre of the C. P. great triangle of country midway between Hindi is spoken by 50 per cent. of the population and Bengal. Their area is 130,001 tion and is the lingua franca. Marathi by thes, of which 82,000 are British terricent. The effects of invasion are curiously illustrated in Berar, where numbers of Moslems have Hindu names, being descendants of for-mer Hindu officials who on the Mahomedan invasion adopted Islam rather than lose their positions. The recent census shows that a gradual Brahmanising of the aboriginal tribes is going on. The tribes are not regarded as impure by the Hindus and the process of absorption is more or less civilising.

Industries.

When Sir Richard Temple became first Chief Commissioner of the C. P. the province was land-locked. The only road was that leading in from Jubbulpore to Nagpur. The British administration has made roads in all directions. addinistration has made roads in all directions, the two trunk milways between Bombay and Calcutta run across the province and in the last few years a great impetus has been given to the construction of subsidiary lines. These developments have caused a steady growth of trade and have aroused vigorous province in a construction of the prime gress in every department of life. The prime industry is, of course, agriculture, which is assisted by one of the most admirable agricultural departments in India and is now receiving additional strength by a phenomenal growth of the co-operative credit movement. The land tenure is chiefly on the zemindar; or great land-lord, system, ranging, with numerous variations, from the great Feudatory numerous variations, from the great Feudatory chiofships, which are on this basis, to holdings of small dimensions. A system of land legislation has gradually been built up to protect the individual cultivator. Berar is settled on the Bombay ryotwari system. Thirty-eight per cent. or about 44,000 square miles of the C. P. is forest: in Berar the forest area is 3,941 square miles. The rugged nature of the greater part of the country makes forest conservation difficult and costly. Excluding forest and wastes, 57 per cent. of the total land is occupied for cultivation; in the most advanced districts the proportion is 80 total land is occupied for cultivation; in the most advanced districts the proportion is 80 per cent.; and in Berar the figure is also high. The cultivated area is extending continuously except for the temporary checks caused by bad seasons. Rice is the most important crop of the C. P., covering a quarter of the cropped area. Wheat comes next, with 15½ per cent., then pulses and cereals used for food and oil seeds; with 11 per cent, and cotton with 7 per cent. In Berar cotton occupies nearly 40 per cent.
of the cropped area, jowar covers an equal
extent, then wheat and oil seeds. In agriculture more than half the working population

n busy cotton spinning industry. The Limpress Mills, owned by Parsi manufacturers, were opened there in 1877 and the general prosperity of the cotton trade has led to the addition of many mills here and in other parts of the province. The total output of spun yarn now amounts to approximately 50 million yards a

The largest numbers engaged in any of the modern industrial concerns are employed in manganese mining. Then follow coal mining, the Jubbulrore marble quarries and allied works

the limestone quarries, and the mines for pottery clay, scapstone, &c.
The total number of factories of all kinds legally so described was 447 in 1916, the latest period for which returns are available and the number of people employed in them 49.459. The same economic influences which operative in every progressive country during its transition stage are at work in the C. P. and Berar, gradually sapping the strength of the old village industries, as communications improve, and concentrating industries in the towns. While the village industries are fading away, a large development of trade has taken place. The last pre-war reports showed an increase in volume by one-third in eight years. In 1014 for the first time, statistics for the Berar factories were incorporated with those of the C. P.

Administration.

The administration of the Central Provinces and Berar is conducted by a Chlef Commissioner, who is the controlling revenue and executive authority and is appointed by the Governor-General-in-Council. He is assisted by three secretaries, two under-secretaries and an assistant secretary. Simultaneously with the jubilee of the foundation of the Province in 1913 a Legislative Council was constituted. It cona Legislative Council was constituted. It consists of 24 members, excluding the Chief Commissioner, 7 being elected by municipalities, District Councils and Landholders in the C. P. and 17 nominated by the Chief Commissioner, of whom not more than 10 may be officials and 3 shall be non-officials chosen respectively by the municipalities, District Boards and Landbolders of Berst. The Chief Commissioner was commissioner and diffuser. Commissioner may nominate an additional member, official or non-official, who has a special knowledge of a subject on which c. P. are legislation is pending. The administrative divided for purposes four divisions, and Berar constitutes another division. Each of these is controlled by a Com-missioner. Berar is divided into four districts, three other divisions into five districts each and one into three, and these are controlled by Deputy-Commissioners, immediately subordinate to the Commissioners. The principal heads of Provincial departments are the Commissioner of Settlements and Director of Land Records, the Inspector-General of Civil Hospitals and Sanitary Commi sioner, the Inspector-General of Police, the Inspector-General of Prisons, the Director of Public Instruction, the Commissioner of Excise, the Inspector-General of Registration, Assessed taxes, &c., and the Director of Agriculture and Industries. The Deputy-Commissioners of districts are the chief revenue authorities usual powers and functions of a district officer.

officer, usually a in-miler of the Imperial Pores. Service, over whom the Deputy-Commissioner has certain powers of supervision, particularly is matter-affecting the welfare of the poorle. Lack district has a Civil Surg on, who is generally also Superintendent of the District Jali and whose work is also in various respects supervised by the Deputy-Commissioner. The Deputy-Commissioner is also marriage registrar and mataket the estates of his district which are under the Court of Wards. In his revenue and esiminal: nork the Deputy-Commissioner is assisted by (a) one or more Assistant Commissioners, of members of the Indian Civil Service; (b) one or more Extra-As-istant Commissioners, of members of the Provincial Civil Service, usually natives of India, but including a few Europeans and Eurasians; and (c) by tabilidars and nat-tabilidars, or members of the Supprilinate ter-vice, who are nearly always nation of India-The district is divided for administrative purposes into tairils, the average area of which is 1,500 square miles. In each village a lambardar, or representative of the proprietary body, is executive headman.

Justice.

The Court of the Indicial Commissioner is the highest court of appeal in Civil cases, and also the highest Court of criminal appeal and revision for the Central Provinces and Bernt except in reference to proceedings against European British subjects and persons fointly charged with European British subjects; in such cases the High Court of the N. W. P. and the High Court of the Bombay have jurisdiction over different parts of the Provinces.

The Court sits at Nagpur and consists of a Judicial Commissioner (who is appointed by the Governor-General in Council) and S Additional Judicial Commissioners of whom one at least must be an advocate of the Court or a Barrister or pleader of not less than 10 years' standing.

Subordinate to the Judicial Commissioner's Court are the District and Sessions Judges (0 in number) each of whom exercises civil and criminal juri-diction in a Civil and Sessions district comprising one or more Revenue districts. The civil staff below to the District and Sessions Judge consists of Sub-Judges and Munsiffs.

Local Government.

Municipal administration was first introduced under the Punjab Municipal Acts and the Muni-cipality of Nagpur dates from 1864. Several revising Acts extend its scope. Viewed generally, municipal self-government is considered to have taken root successfully. The general basis of the scheme is the Local Board for each tabil and the District Council for each district. In Bernr these bould are called Taluk Boards and District Boards are called Taluk Boards The larger towns have municipalities, A cer-tain proportion of the Local Board members are village headmen, elected by their own class. others are elected representatives of the merers of districts are the chief revenue authorities cantille and trading classes and a third proportion and District Magistrates, and they exercise the tion, not exceeding I of the whole are nominated by a forest District forests are managed by a forest District Councils is similar. The official

of the District Councils are frequently from supervision of the Police force, including the includin hat the Tabildar and Naib Tabildar hould be Chairman and Secretary of the Local Boards. The District Councils have no power of taxation and Local tance a charge upon the District Council funds.

Finance. The main sources of Government income in: the province has always been the land revenue, but under Mahratta rule many petty imposts were added in all branches of trade and industry and life in general. Thus there was a special very desirable to maintain his position in this tax on the marriage of Banias and a tax of a respect. fourth of the proceeds of the sale of houses. The scheme of Provincial finance was introduced in 1871-72. Special settlements under this system have been necessitated in view of the special circumstances of the province and the recurrence of famine, which a few years ago caused a severe economic strain upon the province. The wave of prosperity which has spread over the country in the past 14 years, since the end of the previous period, has more than trebled the funds available for the administra-Public Works,

The Public Works Department is controlled by a Chief Engineer, who is also Secretary to the Chief Commissioner. There are two Superintending Engineers for roads and buildings and third in charge of irrigation. In 1892 a separate division of the Public Works Department of the Public Works Department was formed to the second of the Public Works Department was formed to the second of the Public Works Department was formed to the second of the ment was formed for the construction of roads and buildings in the Feudatory States. The expansion of the department and its work has been one of the most remarkable features of the administration in the past decade and a half, largely owing to the demands of a progressive age in regard to communications and new buildings. The Irrigation Branch of the P. W. D. represents a completely new departure. It was formerly the accepted view that the drregular surface of the country would make irrigation canals impossible and that the S. W. monsoon was so regular that it would pay better to relieve famine than to prevent it. Both conclusions have been revened. Pick-ed officers investigated projects for irrigation when the Irrigation Commission was appointed (1901) and canal and storage works have since been advanced with vigour. The Tandula, Walnganga and Mahanadi canal projects are amongst the more important schemes.

Police. The police force was constituted in its present hasis on the formation of the Provinces, the whole of which, including the Cantonnents and the Municipalities, is under one force. The Municipalities, is under one force. The but will embrace several departments of study attength is equal to one man per 8 square miles for area. The superior officers comprise an however, between the university which we have the many propose and existing polyamites. Inspector-General, whose jurisdiction extends propose and existing universities will lie in the lover Berar, two Deputy Inspectors-General, for closer relations of the former with its constituents of the administrative control and tuent colleges. According to our scheme, the

Criminal Investigation Department, and the usual cadre of District Superintendents of Police, Assistant and Deputy Superintedents and subordinate officers. On three railways lave no power of taxation and Local special Raliway Police are employed. A Special Boards derive their funds in allotments from he District Councils. Rural education and local special Raliway Police are employed. A Special Reserve of 486 men is distributed over the he District Councils. Rural education and head-quarters of seven distributed over the capital three bodies direct their attention and in whatever quarter they may appear. The expenditure on familine relief is in the first in men in this reserve are regularly drilled and are armed with rifles. There is a small force of Mounted Police. The Central Provinces has no rural police as the term is understood in other parts of India. The village watch-The village watchman is the subordinate of the village headman and not a police official and it is considered

Education. The educational department was constituted in 1802 and the scheme then drawn up has remained the basis of the system of public education to the present day. The leading principles are that the department should content itself with the direct management of colleges and higher secondary schools, the training of teachers and inspection in in rural areas. The maintenance of rural schools should as far as possible be left to the local trong compared with what they were before authorities, every encouragement should be the several years of scarcity, and the progress given to private philanthropy and no Government the administration and of expenditure has ment schools should be founded where there increased correspondingly, without any in-existed a sufficient number of institutions caperease of taxation under provincial heads, able, with the assistance of the State, of support of the plying the local demand for instruction. the head of the Department is the Director of Public Instruction, who has a staff of Inspectors and Inspectresses for girls schools. these appointments are included in the Indian Educational Service. An Agency Inspector supervises the schools of the Feudator, States. The province has five colleges: the Robertson and Training Colleges at Jubbulpore, and the Morris and Hislop Colleges and the Victoria College of Science at Nagpur. The Agricultural Department maintains an Agricultural College at Nagpur. The Colleges are affiliated to Allahabad University, but a demand has arisen for a local University.

After much preliminary discussion; a com-litee was appointed in July, 1014, to frame mittee was appointed in July, 1914, to frame a scheme "which shall provide for a University of the teaching type at Nagpur, or in its im-mediate neighbourhood, and for the affiliation to this central institution of colleges situated in other places in the C. P. and Bernr." The committee in their report, issued in 1915, proposed a University presenting some of the features of an aminating University but possessed of functions and endowed with responsibilities which transcend the scope of those universities in India which conform to that type, "For (says the report) it will not only be an examining but a teaching university, and its teaching activities will not be limited to the provision of

we propose will possess powers which will imany years before the demand for higher courses entitle it to a high place in the administrative, will justify the establishment of because in the machine of the countries in -machinery of the Provinces. But administra- Medicine and Engineering." tive autonomy involves a certain measure of | Until recent years, the demand for education, financial independence, and we have made primary or secondary, was satisfied by a few proposals accordingly. It is true that the institutions in the larger town, while in the University will be mainly dependent on the erament should regard the University as a business concern, of which it is a shareholder with a seat on the Board of Directors rather than as a servant to whom it makes certain payments, the disposal of which must be circked frequently and in detail.

"We recommend that the administration of the University be vested in a Chancellor, Yice-Chancellor, Senate and Syndicate. The Chief Commissioner of the Province will be the Cancellor. The Vice-Chancellor will be an honorary officer no ninated by the Cannollor, The Senate will be the supreme authority, subject to the general control of the Government. It will be a body of 75 members, consisting partly of representatives of Government and of the general public, partly of elected ' representatives of the graduates and partly of teachers of the University and the constituent colleges, the latter being nominated by the Chancellor. The Syndicate will be the execu-Chancellor. The Syndicate will be the execu-tive of the University, and will consist of the Vice-Chancellor, the Director of Public Instruction, a member of the Senate nominated by the Onancellor, four Principals of colleges, the Dans of the Faculties, and three members elected by the Senate from among their own number, of whom not more than one shall be a . member of the teaching staff. The Chancellor's nominee on the Syndicate should be a person possessed of general administrative experience In both these bodies the members of the teaching

staff will predominate. After careful consideration, we have arrived at the conclusion that a university possessing the wide administrative and educational powers which we propose must be governed by a body in which professional and expert opinion will prelominate. This we think we have secured by giving the members of the teaching staff a predominant voice in the counsels of the

University. "We recommend that the University shall contain, at its inception, Faculties of Arts, Law and Science, and a department for the training of teachers subordinate to the Faculty of Arts. We have considered the question of establishing a Faculty of Agriculture. But in visw of the necessity which the Government

University will exercise an effective control Department of Agriculture feels of purchaga a over the teaching and discipline of all the tentative policy for some years to come with a institutions which come within its jurisdiction, regard to accienting education, we feel that institutions which come within its jurisdiction.

For it is only by exercising control over its component parts that the Universities can mainstain a high standard of moral and intellectual to sneggest that the University should make endeavour, and create traditions which will provide for instruction in this branch known make themselves felt in the development of the Provinces as a whole."

The committee said: "The University which will provide a university standard, it will be course of a university standard, it will be course of a university standard. It will be course of a university standard, it will be course of a university standard.

whole of the rural districts primary education Government for financial support. Apart from had to be proved on an apathetic and even fees, the University at first at any rate will obstructive agricultural population. The new have no resources of its own. But we confess to a desire to see it vested with financial control—the public pulse and the efforts of Government. over the grant which it receives from Govern; to effect improved facilities have responded acment as well as over its other receipts. If we cordingly, Special grants from the Governmay be permitted to employ a simile, the Goy- | ment of Indi, buildet surpluses in mornt years have largely been devoted to assisting the District Councils to overtake their argan of primary rehool building. District Councils in general have allowed their zeal for education to carry them into programmes of development beyond their means.

Medical. The medical and sanitary services of the province are respectively controlled by an inspector-General of Civil Hospitals and a Sanitary Cointils doner. The medical department has progressed along comparatively stereotyped lines. A striking advance has been made in recent years with urban sanita-tion. The principal medical in-titutions are the Mayo Memorial Hospital at Nagpur, open ed in 1874, with accommodation for 84 in-patients; the Victoria Hospital at Jubbulpore, opened in 1886 and accommodating 65 inpatients; the Lady Dufferin Hospital at Nagrur and the Lady Elgin Hospital at Jubbulpers, these last two being for women and containing together accommodation for 68 in-patients. The province has one learned and containing province has one lunatic a-ylum at Narpur Vaccination is compulsory in some Municipal towns to which the Vaccination Act has been extended. The administration in 1913 sanctioned the opening of peripatetic dispensation in unhealthy areas.

Administration. Chief Commissioner, Sir B. Robertson, K.C. L. K.C.M.G., O.I.E., L.O.S., Lt. D., apptd. 3rd Aug. 1912.

Personal Assistant, J. Collaco (on special duty.) Chief Secretary, The Hou'ble Mr. F. S. A. Hon'ble Mr. F. S. A. Chief Secretary, The Slocock, C.I.E., 1.C.S.

Second Secretary, The Hon'ble Mr. J. Hullah, 1.0,5.

Third Secretary, The Hon'ble Mr. J. F. Dyer, Legal Secretary, The Hon'ble Mr. C. S. Findlay 1.0.6.

Under Secretaries, Mr. A. McDonald, I. C. S. and Mr. A. Macleod, 1.0,8,

Registrar, C. E. Higher.
Secretary, Public Works Department (Irrigation Branch), The Hon'ble Mr. A. J. Wadley (Roads and Bulldings), Lt.-Col. S. G. Rivelt Carnac, R.E.

The Centrus 27		Λ.T.
Financial Commissioner, The Houble Mr. H. A. Crump., C.S.I., 1.C.S.	Postmaster-General, Mr. W. A. Roussav. Director of Agriculture and Industries, Mr Leftwich, 1.0.5.	. c. g.
BERAR.	Designation of Co. operating Contil Co. 1 11	e: Me
Commissioner, The Hon'ble Mr. B. I'. Standen,	H. R. Crosthwaite, C.I.E.	
C. I. E., I. C. S.	CHIEF COMMISSIONERS.	
Members of Council.	Colonel E. K. Elliot	1861
NOMINATED MEMBERS.	LieutColonel J. K. Spence (Officiating) .	1862
The Hon'ble Mr. Henry Ashbrooke Crump,	R. Temple (Officialing)	1862
C. S. I., I. O S.	Colonel E. K. Elliot	1803
" Bertram Prior Standen, C.I.E.,	J. S. Campbell (Officiating)	1864
I. C. B.	R. Temple	1864
" " Trancis Samuel Alfred Slocock,	J. S. Campbell (Officiating)	1865
C. L. E., I. C. S.	R. Temple	1865
,, ,, Alfred John Wadley.	G. Campbell	1867 1867
Charles Stowart Findles: 1 CS	T. II. Morela (Officiality)	1868
Tomas Passandon Draw 100	Confirmed 27th May 1870.	1000
Col. William Henry Bamner Robinson, C. B.,	Colonel R. H. Kentinge, v.c. C.S.I. (Offg.)	1870
I.M.S.	J. H. Morris, c.s.t.	1872
Mr. Robert Curzon Henry Moss King, I.C.s.	C. Grant (Officiating)	1879
, Arthur Innes Mayhew.	J. H. Morris, C.S.I	1879
" George Paris Dick, Bar,-at-Law.	W. B. Jones, C.S.I.	1883
· NON-OFFICIALS.	C. H. T. Crosthwalte (Officiating) Confirmed 27th January 1885.	1884
The Hon'ble Khan Bahadur Nawab Muhammad	TO THE STATE OF TH	1885
Salamullah Khan, C.I.E. Mr. Sorabji Bezonji Mehta.	T W Man (Officially)	1887
	A Machanda COZ	1887
Bose, Kt., C.LE.	R. J. Crosthwalte (Officiating)	1880
,, Rao Baliadur Madho Rao Ganesh	Until 7th October 1889.	2005
Despande.	J. W. Neill (Officiating)	1890
ELECTED MEMBERS.	A. P. MacDonnell, O.S.I.	1801
The Hon'ble Mr. Moreshwar Rao Dixit, B.A.,	J. Woodburn, C.S.I. (Officiating)	1893
Barat-Law. Rao Bahadur Narayan Rao Kelkar.	Confirmed 80th November 1893.	
" Mr. Pyaro Lal Misra.	Sir C. J. Lyall, O.S.I., R.C.I.E	1895
,, ,, Mancharpant Krishnarao	The Hon'ble Mr. D. C. J. Ibbetson, c.s.i.	1898
Golwalkar. ,, Rai Sahib Govind Lai Purohit Itai Sahib Culilanji Murarji	Sir A. H. L. Fraser, K.O.S.I. (Officiating)Confirmed 5th March 1902.	1899
Tinckar, Barat-Law. Mr. Seohar Ragbubir Singh.	(Officiating)Confirmed 2nd November 1903	1902 3.
, Shripad Balvant Tambe. , Rao Sahib Ramchandra Vishnu	The Hon'ble Mr.F.S.P.Lely, CS.1., K.C.I.E., (Officiating) Confirmed 23rd Dec. 1904.	1904
Mahajani. Mr. Yeshwant Govind Deshpando.	S. Ismay, C.S.I. (Officiating)	1905 1900
MISCELLANEOUS APPOINTMENTS.	Until 22nd October 1906.	1907
Director of Public Instruction, Mr. A. I. Mayhew.	Until 25th March 1907. Also from 20th	
Inspector-General of Police, The Hon'ble Mr.	May to 22nd November	1909
R. C. H. M. King, 1.0.5.	The Hon ble Sir R. H. Craddock, E.C.S.I.	1907
Chief Conservator of Forests, Mr. Montague Hill, O.I.E., F.L.S.	The Hon'ble Mr.H.A. Crump, c.s.i. (Officiating).	
Inspector-General of Civil Hospitals, and Sanitary Commissioner, The Hon ble Col. W. H. B.	,, M. W. Fox-Strangways, C.s.i. (Sub. pro tem.)	1012
1(ODIII20II, O. B., I. K.S.	The Hon'ble Sir B. Robertson, K.C.S.I., C.I.E.	
Commissioner of Excise, Mr. A. E. Nelson, I.C.S.		1914
Comptroller (Financial Dept.), Mr. J. S. Miluc.	,, Sir B. Roberton, E.c.s.i.	1914

North-West Frontier Province.

east and south by west and may generally be described as the tract of country, north of Baluchistan, lying between the Indus and the Durand boundary line with Afghanistan. To the north it extends to the mountains of the Hindu Kush. From this range a long broken line of mountains runs almost due south. dividing the province from Afghanistan, until the Sulaiman Range eventually closes the south of the Province from Baluchistan. The greatest length of the province is 403 miles, its greatest breadth 270 miles and its total The mountain regions, north and west, The area of this tract is roughly 25,500 square miles and in it are situated, from north to south, the political agencies severally known as the Malakand, Khyber, Kurram, Tochi and Wana Agencies. Each of the Deputy Commissioners of the five administered districts is responsible for the management of political relations with certain tribes or sections of the tribes across the frontier. A few hundred miles of the trans-border Territory are inter-nally administered by the Political Agents, but the bulk of the trans-border population is free from any internal interference, so long as offences are not committed and so long as the tribes observe the conditions on which allowances are paid to many of them. The area of the Province is a little more than

half that of Bombay (excluding Sind and Aden) and amounts to more than three-fifths of the size of England without Wales. The density trans-Indus plains tract the number is 152. The key to the history of the people of the K.-W. F. P. lies in the recognition of the fact medan times its population was mainly Indian by race. Early history finds the Iranians dominating the whole Indus valley. Then came the Greek invasion under Alexander tha Great, in B.C. 327, then the invasions of the Sakaa, and of the White Huns, and later, the two great waves of Muhammadan invasion. Last came the Sikh lavasion, beginning in 1818. The Frontier Territory was annexed by the British in 1819 and placed under the control of the Punjab Government. Froquent to defective, inasmuch as the Pathan, the Pathan, the Pathan, the Pathan, They off the population of the Punjab Government. Froquent is the proposition of the Punjab Government. The dominant language of the Province is lingual strata. The most important section of the population, both numerically and by cooking position, are the Pathan. They off

The North-West Frontier Province, as its warfare occurred with the border triber, but name denotes, is situated on the north-west since the concluder of peace with the Airbit frontier of the Indian Empire. It is in form in 1893, the whole border has been undisturbed an irregular strip of country lying north by except for the expedition against the Zakka east and couth by west and may generally be Khel Afrills in 1993 and the recent blockade Mohmand of 1916-17 and Waziristan L'applitica of 1917.

The division of the Frontier Province from the Punjab was frequently discurred, with the double object of securing closer and more immediate control and supervision of the Frontier by the Supreme Government and of making such alterations in the personnel and duties of frontier officials as would tend to the cutablishment of improved relations between the local British representatives and the indepenarea about 39,000 square miles. The terri- dent tribesmen. The province was eventually tory falls into three main geographical divi- removed from the control of the Yunjah adtory inits that three main geographical districtions in the control of the ringian actions; the Cis-Indus district of Hazara; the ministration in 1001. To it was added the narrow strip between the Indus and the Hills, 'political charge of Dir, Swat and Chitral, the containing the Districts of Peshawar, Kohat, Political Agent of which had never been rub-Banu and Dera Ismail Khan, and the rugged ordinate to the Punjab. The new Province mountainous regions on the north and west was constituted under a Chief Commissioner testimen three districts and the howlet lines for between those districts and the border line of and Agent to the Governor-General, with head Afghanistan. Hazara and the four districts quarters at Perhawar, in direct communication the second division contain 13,418 square then with the Government of India in the Portion Department. In Department. In political questions there is no intermediary between the Chief Commisare occupied by tribes subject only to the poll- is no intermediary between the Chief Commissioner in his stoner and the local officer; an arrangement capacity as Agent to the Governor-General designed to secure both prompt disposal of designed to secure both prompt disposal of references and the utilisation of the experi knowledge of frontier conditions for which the head of the administration is selected.

The People.
The total population of the N.-W.F.P. (1911)

us 3,810,027, made up as follows:-603,025 Trans-Indus Districts 1,593,005 . . 1,620,004 Trans-Border Area This last figure is estimated. There are only 625.6 females per 1,000 males in the towns and 900 females per 1,000 maies in the towns as 900 females per 1,000 maies in rural areas. This disproportion of the sexes cannot at present be explained in the N.-W.F.P. any mort than in other parts of Northern India, where it also appears. The discrepancy is greater here then it cannot be a proper than in contract the Property of the per them. here than in any other Province of India. is no ground for believing that the neglect of girls in infancy has any effect in causing the phenomenon. On the other hand, the female of population throughout the Province equais population has to face many trials which are 30 persons to a square mile, but in the more unknown to men. The evils of unskilled mile favoured portions the pressure of population wifery and carly marriage are among them is much greater. In the Hamm District there Both the birth and death-rates of the Province are 207 persons to a square mile and in the are abnormally low. The birth rate in the are abnormally low. The bitth rate in the administered districts, according to the last annual official reports, was 35°1 and the death rate 33°3. There were 122°5 male births for every 100 female. that the valley of Peshawar was always more every 100 females. It is recognised that in closely connected politically with Lastern this matter, and in regard to population medan times its population was mainly Indian be defective, inasmuch as the Pathan, of the real political properties of the registration of temales may be defective, inasmuch as the Pathan, of the real properties of the registration of

control of the Punjab Government. Frequent social position, are the Pathons, They of

a trry large proposition of the land in the adlitter Pattan, Baluch, Rajout and other tribe Agency, al divisions. Gurkline have recently ectifed in the Province. The Habonesian trilles The population derives its subsistence almost emitting almost the whole population, Hindus wholly from agriculture. The Province is amounting to only a per cont of the total and | Sikhi to a few thousands. The occupational cleavage of the population confuses ethnical divisions.

Under the North-West Propiler Province LAW and Justice Regulation of 1901, custom which connect the trans-border tribal COXCED# all questions regarding succe-sions, terrethal, marriage, divere, the separate trail sale with india, but the influence of rule property of women, dower, wills, rifts, participants, family relations such as adoption and trading interests. The travelling truders for guardiar-rip, and religious usages and institutionally from the transfrontier area have tutions, provided that the custom be not constitutionally from the transfrontier area have

which is mainly the mountainous region, but includes the Pe-hawar Valley and the riversine tracts of the Indus in Dera Ismall Khan District, are extremely diversified. The latter district is one of the hottest areas of the Indian continent, while on the mountain ranges the weather is temperate in summer and intensely cold in winter. The air is generally dry and hence the annual ranges of temperature are frequently very large. The Province has two wet reasons, one the S.-W. Monsoon season, when moisture is brought up from the Arabain Sea and the Bay of Bengal: the other in winter, when storms from Mesopotamia, Persia and the Casplan Districts bring widespread rain and snowfall. Both sources of supply are precarious and not infrequently either the winter or the summer rainfall falls almost entirely. The following description of the Daman, the high ground above the Indus, stretching across Dem Ismail Khan to the mountains on the west, occurs in a account written some years ago by Caplain Crostwalte: "Men drink once a day and the cattle every second day. Washing is an impossible luxury... It is possible in the hot weather to ride thirly miles and neither hear a dog bark nor see the smoke of a single fire." With the exception of the Kunhar River, in Hazara, which flows into the Jhelum, the whole territory drains into the Indus. The flora of the Province varies from the shrubby jungle of the south-eastern plains to barren hills, pine forests and fertile mountain valleys. Tigers used to abound in the forests but are now quite extinct; leopards, hyenas, wolves, jackals and foxes are the chief carnivora. Bear, deer and monkeys are found; a great variety of fish is caught in the Indus.

The mountain scenery is often magnificent. The frontier ranges contain many notable peaks of which the following are the principal: Takht-I-Sulaiman, Sulaiman Range, in Lora Ismail Khan, 11,292 feet. Pir Ghal, Sulaiman Range, in Mahsud Wa-

ziristan, 11,583 feet.
Sika Ram, in the Safed Koh, in the Kurram
Agency, 15,021 feet.

Kagan Peaks of the Himalayas; in the Hacars District, 10,000 to 16,700 feet,

Istraph Peak (18,000 ft.), Kachin Peak 22,011 ft.), Thich Mir (25,420 ft.), all in the ministered districts and are the ruling mes. 22,641 ft.), Tirich Mir (25,426 ft.), all in the of the tribal area to the west. There is a long Hindu Rush, on the northern border of Chitral

Trade and Occupations. practically without manufactures. There is no considerable surplus of commercial pro-ducts for export. Any commercial importance which the province possesses it owes to the fact that it lies across the great trade routes tories and the marts of Afghanistan and Centrary to justice, equity or gool conscience, and now, instead of doing their trading in In these matters the Mahomedan or Hindu law I towns near the border, earry it by train to the is applied only in the absence of special custom, along cities in India. Prices of agricultuml produce have in recent years been high, but The climatic conditions of the N.-W.P.P., means of communication, have to some extent been deprived of secess to Indian markets and have therefore been unable to profit by the rates prevailing. On the other hand, high prices are a hard-hip to the non-agricultural classes. effects of recent extensions of irrigation have been important. Land tenures are generally the same in the British administered districts as in the Punjab. The cultivated area of the land amounts to 32 per cent, and uncultivated

to 03 per cent.

The work of civilisation is now making steady progress. Relations with the tribes have improved, trade has advanced, free medical relief has been vastly extended, police admi-nistration has been reformed and the desire of people for education has been judiciously and sympathetically fostered. In the Bri-tish administered districts 10 per cent, males and 7 per cent, females of the total population are returned as literates. The figures for males denote a very narrow diffusion of education even for India. Those for females are not notably low, but they are largely affected by the high literacy amongst Sikh women, of whom 13.3 per cent. are returned as literate. The inauguration of a system of light rallways throughout the Province, apart from all considerations of strategy, must materially im-prove the condition of the people and also by that means strengthen the hold of the admi-nistration over them. The great engineering project of the Upper Swat River Canal, which project of the Upper Swat River Canal, which was completed in 1914, and the lesser work of the Paharpur Canal, also completed a year, or two ago, will bring ease and prosperity to a number of peasant homes. There has arisen in recent years the difficult question of the importation of thousands of rifles from the Persian Guilt. Elaborate measures were taken to stamp out the transport of the stamp out the transport. to stamp out the traffe, under the direction of the Naval Commander-in-Chief in the East Indies; and with the tardy consent of France an agreement was made with the Sultan of Muscat, to stop the trade in arms from that place, Muscat having been the entrepot for the traffic.

Administration, The administration of the North-West Frontier Province is conducted by the Chief

In area, includes the Assam Valley District, increase in tenancy throughout the Province the Surina Valley and Hills District and the is stown. State of Mentrus. It was its importance to its situation on the porthesact frontier of India. It is surranded by mentations ranges on them tiles while on the fruith (the west) lies the Produce of Bergal on to the plans of salich deleach the two valleys of the Brahaus-Initia and the burms which form the plains of Arram. There two halfers are reprinted from each other by the Arram Range, which projects westward fresh the bills on the castern

Population.

The total population of the province in 1911 Pas 7,637,537, of about 11 millions were Mabut 1,639,537, of whom 14 millions were Ma-bermelars, 34 millions Hindus and 14 millions Animists, 46 per cent, of the population speak Bengall, 22 per cent, speak Arianese; other languages speken in the province are Hindi, Univa and a great variety of languages classified under the general heading of the Tilleto-Chinece languages. Owing to the great areas of waste and rivers the density of the province is only 115, which, compared with that of most other parts of India, is low, but is more than double that of Burma,

Agricultural Products.

It has agricultural advantages for which it would be difficult to find a parallel in any part of India, climate, soil, rainfall and river sys-tems all being alike favourable to cultivation. Rice is the staple food crop, about 4 million neres being devoted to this crop. In 1915-16 the outturn of rice was 1,310,625 tons. Except in the Himalayan Teral irrigation is unnecessary. Jute and tea are the most important crops grown for export; the area under jute leing generally about 40,000 acres, that under tea about 376,000 acres. In 1916 the total number of tea gardens was 770, the production leing estimated at 245,285,020 the Wheat and tobacco are also grown and about 30 square miles are devoted to sugarcone. The total area 'reserved' forest is about 4,007 square miles and the unclassified state forests cover about 18,500 square miles.

Mcteorological Conditions.

Rainfall is everywhere abundant, and ranges from 93 to 124 inches. The maximum is reached at Cherrapunji in the Khasi Hills, which is one of the wettest places in the world, having a rainfall of 458 inches. The temperature ranges from 50° at Sibsagar in January to 84° in July. Earthquakes of considerable reverity have taken place, by far the worst being that which occurred in 1807.

Land Tenures.

Most of the actual cultivators of the soil usually hold direct from the State, and the area of land on which rent is paid is inconsiderable. A large part of Gonipara and of the more densely populated portions of Sylhet was however included in the permanent settlement of Bengal; and the system of land tenure in Cachar, and the existence of large estates on privileged rates of revenue in Kamrup have tended to produce a tenant class which at the 1901 census amounted to more than one-third of the total number of persons supported by Sadiya Rallway; and is connected with the

The Prothes of Acres, Clifel agree toller, agriculture. In the 1911 census a very marked

The Assam Labour and Embgration (Amendment) Bill was presed on the 24th March 1916. The Act carries with it the abolition of the recentling contractor and the creation of Labour Imreau to supervise recruiting.

Mines and Minerals.

The only inherals in Aream worked on a commercial scale are coal, limestone and twireleum oil. The most extensive coal measures are in the Naca Hills district, where about 200,000 tons are mised annually and need mainly by the river steamers. Limestone is quarried in the Klass and Jaintla Hills, in Sylhet, and in the Gare hills, Petroleum is worked only in Lakimpur.

An account of the petroleum occurrences in Arram was recently published in the me-moirs of the Geological Survey of India, It occurrences states that the petroleum localities in this province are confined to a curved belt of country along the basins of the Brahmaputra and Surma. This belt is traccable over a distance of some 600 miles from N.E. Assam through Rachar and Chitagong to the Arakan coast, where it has a 6.8.E. trend, It is roughly concentric with the trend of the Burmeso oil belt, the distance between the two varying from 70 to 150 miles.

Monufactures and Trade.

Silk is manufactured in the Assam Valley: the weaving being done by the women. Cotton weaving is also largely practised by the women, and almost every home contains a loom; the cloth is being gra-dually displaced by imported goods of finer texture and colour. Boat building, brass and metal and earthenwares, tea manufacture and limestone burning are the other industries apart from agriculture, which listelf employs about 84 per cent. of the population. Assum carries on a considerable trade with the adjoining foreign tribes and countries. In 1915-16 the value of frontier trade registered was about Rs. 23 lakhs. The decrease in both imports and exports is attributable mainly to the contraction of trade with Bhutan, the proportion of the trade carried on with this country being about 60 per cent. of the total in recent years. The value of the total trade with Bhutan was about Rs. 214 laklis in the year under review as compared with approximately Rs. 341 lakhs in the previous year. The decrease is a scribed largely to the occurrence of a few cases of cholera in a Bhutla encampment above Subankhata, in consequence of which the Bhutan authorities ordered the return of the Bhutlas to the country carller than usual. The export trade with Abor, Mishmi and other tribes declined from Rs. 34,272 to Rs. 20,611 owing to chiefly to a lesser demand for oplum.

Communications.

The trade of Assam is chiefly carried by river, but increasing use is being made of the Assam Bengal Rallway which runs from the port of Chittagong to Blichar at the eastern end of the Surma Valley. A branch of that line runs along the south of the Assam Valley from Gauhati to Tinsukla, a station on the Dibra-

system ris the valley of the Brahmaputra. The excellence of its water communication makes Assam less dependent upon roals than other parts of India; but in recent years the road system has been developed and there is a trunk road through the whole length of the Brahmapatra Valley and an excellent road from Gaubati to Shillong. A large fixet of steamers maintained by the India General Steam Navication Company and the Rivers Steam Navigation Company plies on the rivers of both valleys. A daily service of passenger boats runs from Goalando to Dibrugath.

Finance.

Gross receipts rose in 1915-16 from Re. 1.72.44,772, in the previous year to Re. Sanitary Commissioner, Major T. E. M. Young 1.78.63.331, while the cross expenditure fell. R. R., L.E.S. from Rs. 1.71,53.295 to Rs. 1.56,66,381. The Comptoller, Financial Department, Philip Gordon, Provincial account opened with a habiton of provincial account opened with a tolance of Rs. 29, 48, 878 which included Importal assign- Political Agent in Manikpur, John Comprends for various nursees accountly. Hs. Political Agent in Manikpur, John Comprends ments for various purposes agentating Res. 20,25,000. Receipts to Res. 1,42-55-971 and expenditure to Res. 1,52,40,071. Further Imperial assignments of Rs. 4.18,000 were received , during the year and the provincial account closed with a beliance of Rs. 19,97,778.

Education.

There are in the Province at present 4,822 educational institutions including two Arts Colleges with 233,833. Of the total population 333,672 are returned as literate. The distribution of literacy naturally varies considerably throughout the Province. The large number of immigrant coolies and of aboriginal tribes tends to lower the proportion of literates in the Brahmaputra Valley, and a compara-tively high standard of literacy in the Hills is due mainly to the progress of education amonest the Khasis of whom a large proportion have been converted to Christlanity. Amongst the Animists in the Hills the Lushais seem to lave an extraordinary keenness for learning, which is the more remarkable, because the administration of their district dates from quite recent times.

Administration.

The province of Assam was originally corned in 1874 in order to relieve the Lieutenant-Governor of Bengal of part of the administration of the huge territory then under him. In 1903, as the result of further deliberations, it was decided to add to the small Province of Assam the eastern portion of its unwieldy neighbour and to consolidate those territories under a Lieutenant-Governor. Province of Eastern Bengal and Assam as then constituted was again broken up on the 1st of April, 1912: the Eastern Bengal Districts were united with the Bengal Commissionerships of Burdran and the Presidency to form the Presidency of Bengal under a Governor-In-Council, Biber, Chota Nappur and Orissa were formed into a separate province, while the old Province of Assam was re-constituted under a Chief Commissionership of Assam Chief Commissioners a Chief Commissioner.

The capital is Shillong, a town laid out with Surma Valley branch by a line that plorees. The capital is Shillong, a town laid out with the North Cachar Hills, the points of junction great taste and judgment among the pine being Lumding in the northern and Endarpur, woods on the short of the Shillong Range which in the southern valley. The Lastern Burgal ries to a helpful of 6,450 feet above the sea-State Rallway connects Assam with the Bengal, it was destroyed in the carthquake of 1897. and has been rebuilt in a way more likely to withstand the shocks of carthquake.

Chief Commissioner, Six Archidale Ratle, K.C.L.L. appointed 1st April, 1912,

Personal Ayra., Captain W. Lowry-Corry, I.A.

Chief Sevelary, J. E. Webeler, CA.L. Second Secretary, A. W. Botham.

Seretary. Public Works Department, Y. O. Inthio Percention Officialist Inspector General of Registration

S. N. Mackenzie, Log. Judges, Henry Crawford Liddell, J. F. Grillam. Director of Public Instruction, J. R. Cunningiam. Inspector-General of Police, Lt.-Col. A. L. Woods.

Himine.

Superintendent and Recumbeancer of Legi-Africa, Abdul Majid, n.a.

Director of Land Reports and Agricultures ? Mes winer.

Archeological Surrey, Earlers Supermiendent, Archerit Curae, D. B. Spooner.

Chief Inspector of Factories, R. P. Adams.

LEGISLATIVE COUNCIL

Licut.-Col. P. R. T. Gundon, F. O. Octel Licut.-Colonel D. Herbert, J. R. Cunningham K.S., J.F. Graham, Abdul Majld, A. B. Hawkin Patriode Rajindra Naravan Chandhuri, Rai Nalir Kanta Ray Dast die, Musshi Riaz Rakhen, Co H. E. Banatwala, J. E. Webster, A. W. Botham

Elected Members.

Rai Ghanasyam Rarna, Maulvi Salvil Abda Majil, Khan Bahadur, Maulvi Salvil Muhan mad Saadalla mad Saadulla, Phanidhar Chalina Ral Dalair Mr. Tarun Ram Phukan, Rammi Mohan Da Babu Radha Binod Das, Mr. E. St. J. Hickard Mahammad Babu Das, Mr. E. St. J. Hickard Muhammad Bakht Marumdar, Khan Jiahada Mr. H. Miller, Mr. H. B. Fox.

Chief	Commissio	ners	of As	sam.	
Colonel R. H.	Keatings.	C.S.I.	••		150
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C. A. Elliot, C. W. E. Ward	251	• •		••	155
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Dennis Fitzp J. Westland,	atrick, c.s.1			• •	150
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J. W. Quinto BrizGenera	n, c.s.l. I Sir H. Cali	ع فراما	CE	••	18: 18:
W. E. Ward,		,			134
C. J. Lyall, c	Carl		• •	• •	783
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H. J. S. Cott J. B. Fuller,	0a, C.S.I.	••			18:
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J. B. Fuller, C. W. Bolton	C.L.E.	• •	• •	• •	19.

Sir Archdale Earle, R.C.I.E

Baluchistan.

Baluchistan is an oblong stretch of country establishment of peace and security has been occupying the extreme western corner of the accompanied by a marked extension of agri-Indian Empire. It is divided into three main divisions; (1) British Baluchistan with an area of 0.470 square miles consisting of tracts assigned to the British Government by treaty in 1870; (2) Agency Territories with an area of 44,345 square miles composed of tracts which have, from time to time, been acquired by lease or otherwise brought under control and placed directly under British officers; and (3) the Native States of Kalat and Las Bela with an area of 78,434 square miles. The Province embraces an area of 131,638 square miles and according to the census of 1911 it contains 834,703 inhabitants, divided roughly half and half between the administered districts and

The country, which is almost wholly mountainous, lies on a great belt of ranges connecting the Safed Koh with the hill system of Southern Persia. It thus forms a watershed the drainage of which enters the Indus on the cast and the Arabian Sea on the south while on the north and west it makes its way to the inland lakes which form so large a feature of Central Asia. Rugged, barren, sun-burst mountains, rent by high chasms and gorges, alternate with arid deserts and stony plains, the prevailing colour of which is a monotonous sight. But this is redeemed in places by level valleys of considerable size in which irrigation enables much cultivation to be carried on and rich

crops of all kinds to be raised.

The political connection of the British Government with Baluchistan commenced from the outbreak of the First Afghan War in 1830; it was traversed by the Army of the Indus and was afterwards occupied until 1842 to protect the British lines of communication. The districts of Kachl, Quetta and Mastung were handed over to the Amir of Afghanistan and Political Officers were appointed to administer the country. At the close of the First Afghan War, the British withdrew and these districts were assigned to the Khan of Kalat. The founder of the Baluchistan Province as it now exists was Sir Roberts Sandeman who broke down the close border system and welded the Baluch and Brahul Chiefs into a close con-federacy. In the Afghan War of 1879 Pishin, Sibi, Harmal and Thai-Chetiall were handed over by Yakub Khan to the British Govern-ment and retained at Sir Robert Sandeman's strenuous insistence.

Industries. Baluchistan lies outside the monsoon area and its rainfall is exceedingly irregular and scanty. Shahrig which has the heaviest rainfall, records no more than 111 inches in a year. In the lightands few places receive more than 10 inches and in the plains the average rainfall is about 5 inches, decreasing in some cares to 3. The majority of the indigenous population are dependent for their livelihood on agriculture, provision and care of animals and transport. The Afghan and the Baluch, as arule, cultivate their own lands. The Brahuis dislike agriculture and prefer a pastoral life. Previous to the advent of the British life and property were so insecure that the cultivator was fortunate if he reaped his harvest. The

culture which accounts for the increase in the numbers of the purely cultivating classes. The Mekran Coast is famous for the quantity and quality of its fish and the industry is constantly developing. Fruit is extensively grown in the highlands and the export is increasing.

Education is imparted in about 150 schools with over 4,000 scholars. The mineral wealth of the Province is believed to be considerable, but cannot be exploited until milways are deve-loped. Coal is mined at Khost on the Sind-Pishin railway and in the Bolan Pass. Chromite is extracted in the Quetta-Pishin District, but the injustry awaits the extension of the railway from Khanai to Hindubagh for its adequate exploitation. Lime-stone is quarried in small quantities. An oil-prospecting licence has been granted by the Las Bela State to th

Burma Oll Company.

Administration.

The head of the local administration is the officer styled Agent to the Governor-Genera and Chief Commissioner. Next in rank come the Revenue Commissioner who advises th Agent to the Governor-General in financia matters and generally controls the revenu administration. The keynote of administra-tion in Baluchistan is self-government by th tribesmen, as far as may be, by means of thei Jirgas or Councils of Elders along the ancien customary lines of tribal law, the essence o which is the satisfaction of the aggrieved and the settlement of the feud, not retaliation or the settlement of the read, not retained of the aggressor or the vindictive punishmen of a crime. The district levies which normally numbered 2,300 odd play an unobtrusive but navaluable part in the work of the Civil Administration not only in watch and ward and the investigation of crime, but also in the carrying of the mails, the serving of processes and other miscellaneous work. In addition to these district levies there are ordinarily three irregular Corps in the Province: the Zhob Militia (formerly known as the Zhob Levy Corps), the Makran Levy Corps, and the Chami Levy Corps. Their combined strength in the latest roturns was 953 cavalry and 892 infantry. The Province does not pay for itself and receives large subsidies from the Imperial Government. The receipts and expenditure roughly balance each other at 29 lakhs. ADMINISTRATION.

Agent to the Governor-General and Chief Commissioner, The Hon'ble Lleut. Colonel Sir John Ramsay, R.C I.E., C.S.I., I.A.

Revenue and Judicial Commissioner, H. R. C. Dobbs, 0.8.1., 0.1.E.,1.0.5.
ceretary, Public Iforks Department, Colonel

Secretary, Public Works Department, Coloner R. S. Maclaran, C.B., C.S.I. First Assistant to the Agent to the Governor-

General and Secretary to the Chief Commis-sioner, Major R. H. Chenovix-French-Second Assistant to the Agent to the Governor-General, Captain G. B. Walker, I.A.

Political Agent, Zhob, Jacob, Licut .- Colonel A L.,

Assistant Political Agent, Zhob, Major C. T. Daukes, I.A. Political Agent, Kalat and Bolan Pass: Dew,

Lieut.-Colonel A. B.; C.I.E.; t.A.

Assistant Political Agent, Kalat and Bolan Post, Medical (Vacant).

Assistant for Mekron to the Political Agent in Ralat and er-officio Commandant, Mekran ! Lery Corpe, Major T. G. M. Harris.

Quella and Pishin, Major H. B. St. John,

Assistant Political Agent and Assistant Commissioner, Quetta and Pishin, J. H. Achron.

Political Agent, Chagai, Major W. G. Hutchinson,

Political Agent and Deputy Commissioner, Silvi, Lieut. Colonel F. McConnghey.

Political Agent, Loralai, Major A. D. G. liamsay.

Residency Surgeon and Chief Medical Officer, Dake, Lieut.-Colonel A. J., I.M.S.

Ciril Surgeon, Sibi, Dr. A. C. J. I.Iwin.

ANDAMAN AND NICOBAR ISLANDS.

This is a group of islands in the Bay of Bengal of which the headquarters are at Port Blair, by sea 780 miles from Calcutta, 740 miles from Madras and 300 miles from Rangoon, with which ports there is regular communication.

The land area of the islands under the administration is 3,143 square miles, namely, 2,508 square miles in the Andamans and 635 aquare miles in the Nicobars. The total population of the islands was returned in the census of 1911 as 26,450. The Islands are administered by the Chief Commissioner of the Andaman and Nicobar Islands who is also the Super-intendent of the Penal Scttlement. The penal settlement, which was established in 1858, is the most important in India.

Superintendent of Port Blair, Lieut.-Col. M. W. seeds and wheat.

and Superintendent of Jaile, Major Sentor Medical Officer. Ħ. J. Murray, 1.M.S.

COORG.

Coorg is a small petty Province in Southern Political Agent and Deputy Commissioner, India west of the State of Mysore. Its area is 1,682 square miles and its population 174,976. Coorg came under the direct protection of the British flovernment during the war with Bultan Tipu of Seringapatam. In May 1801, owing was annexed. The er the Government ' by the Chief Commissioner of Coorg who is the Resident in Myrore with his headquarters at Bangalore. In him are combined all the functions of a local gov-comment and a High Court. The Secretariat is at Bangalore where the Ardstant Resident is styled Secretary to the Chief Commissioner Assistant Political Agent, Sibi, T. J. C. Acton, of Coorg. In Coorg his chief authority is the Commissioner whose headquarters are at Mercars and whose duties extend to every branch of the administration. The chief wealth of the country is agriculture and especially the growth of collec. Although owing to over-pro-

> competition of Brazil. The bulk of the output is exported to France. Resident and Chief Commissioner, Coors. The Hon. Mr. H. V. Cobb, C.S.I., C.I.E., 1.C.E.

> duction and in cet pests coffee no longer com-mands the profits it once enjoyed, the Indian

output still holds its own against the severe

AJMER-MERWARA.

Almer-Merwara is an isolated British Province in Rajputana. The Agent to the Governor-General in Italputana administers it as Chief Commissioner. The Province consists of two small separate districts, Ajmer and Merwarn, with a total area of 2,711 square miles and a population of 601,393. At the close of the Pindari war Daulat Itao Scindia, by a treaty dated June 25, 1818, ceded the district to the British. Fifty-five per cent. of the population are supported by agriculture, the industrial population being principally employed in the cotton and other industries. The principal crops are maize, millet, barley, cotton, oil-

Acting Commandant and District Superintendent and Chief Commissioner of Ajmer-Mericara, of Military Police, B. T. Roussac. The Hon. Lleut. Col. Sir E. G. Colvin, K.C.S.I.

with I men. appanage of the Bombay Presidency, which it has neither geographical, racial not political affinity. Probably the best rolution of the matter would be to hand over the place to the Colonial Office, relieving the Government of Bombay of a charge which is only looked upon s an incubus." Some important steps have een taken in the past few years to satisfy the ommercial needs of the port.

Trade.

The trade of Aden has developed immensely ince British acquirition in 1839, largely through he Government of India declaring it a free port a 1850, since when it has attracted much of the sluable trade between Arabia and Africa, ormerly monopolised by the Red Bea ports of Todelda and Mokha. The opening of the The total imports by sea in the last official year (1913-14) before the war set the course of progress away amounted to £3,766,004; by land £170,213; treasure, £450,306; exports by sea dryness of the soil and the purity of the drinking were £3,207,293; by land, £140,159; treasure, water constitute effective exports against £741,687. These statistics are exclusive of many maladies common to tropical countries. Government stores and treasure. In 1016-17, The annual rainfall varies from \$\frac{1}{2}\$ inch to \$\frac{8}{2}\$ the total trade of the port showed an increase inches, with an irregular average of 3 inches, of £2,092,088—foreign trade increased from The War. 25,628,658 to £7,079,026; Indian trade from £1,575,256 to £2,833,537. Land trade decreased from £158,285 to £139,724.

The language of the settlement is Arable, but several other Asiatic tongues are spoken. population is chicity returned as Arabs and Shalklis. The Somalis from the African coast and Arabs do the hard labour of the port. So far as the settlement is concerned there are no products whatever, with the important exception of salt. The crops of the tribal low country adjoining are jowar, sesamum, a little cotton, madder, a bastard saffron and a little ladigo. In the hills, wheat, madder, fruit, coffee and a considerable quantity of wax and honey are obtained. The water supply forms the most important problem. Water is drawn from four sources-wells, aqueducts, tanks or reservoirs

and condensers.

Administration.

the Indian army, as have his assistants. The Resident has jurisdiction as a Judge of the Vice-Admiralty Court in matters connected with slave frading, his court being called the Colonial Court of the Admiralty. The laws the Colonial Court of the Admiralty. The laws in force in the settlement are generally speaking those in force in the Bombay Presidency, supplemented on certain points by special regula- | not received supplies or reinforcements-tions to suit local conditions. The management | The following are the principal officers of the port is under the control of a Board of present administration :-Trustees formed in 1888. The principal business of the Port Trust has been the deepening of the harbour, so as to allow vessels of all sizes to enter and leave at all states of the tide. The Aden police force numbers slightly over 200

There are hospitals and dispensaries in both Aden and Perim, in addition to the military matitutions of this character. The garricon comprises a troop of engineers, three companies of garrison artillery, one battallon of British infantry, two companies of rappers and minera and one Indian regiment. Detachments from the last named are maintained at Perlin and Shalkh Othman respectively.

The average temperature of the rintion is 37 degrees to the shade, the mean being from 75 in January to 93 in June, with variations up to 102. The lulls between the monsoons, in May and September are very oppressive. Consequently, long residence Impairs the faculties and undermines the constitution of Europeans and even Indians suffer from the effects of too long an abode in the settlement, and troops are not posted in the normal was also responsible for a large the settlement, and troops are not posted in the spect. And the settlement and troops are not posted in the necessary of trade through Aden into the interior. Istation for long periods, being usually rent there is necessary of the settlement of the settlement. But Aden is one year and relieved the next. But Aden is exceptionally free from infectious diseases and epidemies, and the absence of vertition, the dryness of the soil and the purity of the drinking

At the outset of the war the Turks established themselves on the Arabian shore of the straits of Babel-Mandeb. They were drivin of, their fort captured and then guns taken, by a force landed from a British warship. But in July, 1015, a mixed force of Turks and Araba advanced against the Aden Settlement. News was made known in India by a Renter tolegram But In of July 0th, which said that the Turks and Arabs threatened Lahel, that at the request of the Sultan of Lahel a force was sent for the protection of his capital, and that the supporting force was so beset with water and transport dimcuttles that it was decided to reilre, and the whole force withdrew to Adra, the enemy declining to follow. Subsequently came an official intimation that the Sultan of Lahoj who had been grievourly womeded in a fight against the raiding force thad died in Aden whither he had been taken for surgical treatment. The Government The Aden settlement, was until last year subject taken for surgical treatment. The Government politically to the Government of Bombay but it of India announced on July 22nd that on the has now been handed over to the Foreign Office, morning of the 21st instant a force from the Its administration is conducted by a Resident, Aden Garrison attacked the position taken by who is assisted by four Assistants. The Resident the Tarks, a few miles outside the settlement, is also ordinarily military Commandant and has and drove them from it, the pursuit being hitherto usually been an officer selected from continued for a distance of five miles. No further detailed information on the matter has been made public, but Earl Curzon stated in the House of Lords on December 4th last that the British forces were then holding an are at about 11 miles from Aden and that so far as about 11 miles from Aden and that so far as about 11 miles from Aden and that so far as about 11 miles from Aden and that so far as about 11 miles from Aden and that so far as about 11 miles from Aden and that so far as a far and the far a was known the Turks in the vicinity had no direct communication with Turkey and had The following are the principal officers of the

Political Major-General

litical Resident, Mi Marchall Stewart, o.n. Barton Assistant Residents, Major O. E. Barton (Perim), Lieut.-Colonel H. F. Jacob, Captain

B.R. Rellly, Lieut. Colonel W. Beals.

The arry enclosed within the Leundaries of profite direction. In 1881 the State of Mysore, inche is 1.773,168 square miles, with a popular which had been so long under lightly admiand the Simia Hill States, which are little more an anall helding, to States like flydershad, as large as Italy, with a population of thirteen millions. They include the inhospitable regions of Western Italiputana, Barrela, part of the Garden of India, Mysore, rich in agricultural wealth, and Kashmir, one of the most invoured spots on the face of the globe. In the case of 175 States control is exercised by the Government of India, and of about 500 by the Provincial Governments. The four principal states, Hyderabad, Mysore, Baroda and Kashmir, are in direct relation with the Government of India. The other States are grouped under the direction of an Agent to the Governor-General, as for Ralputana and Central India; in one case the Provincial Government has been compelled to group its States, those of Kathlawar, under an Agent to the Governor.

Relations with the Paramount Power.

So diverse are the conditions under which the Native States were established and came into political relation with the Government of India, that it is impossible even to summarise them. But broadly it may be said that as the British boundaries expanded, the states came under the influence of the Government and the rulers were confirmed in their possessions. To this general policy however there was, for a brief period, an important departure. During the regime of Lord Dathousfe war, for a brief period, an important departure. During the regime of Lord Dalhousle the Government introduced what was called annexation through lapse. That is to say, when there was no direct heir, the Government considered whether public interests would be secured by granting the right of adoption. Through the application of this policy, the states of Satam and of Nagpur fell in to the East Lord Courses and the kingdom of Onde East India Company, and the kingdom of Oudh was annexed because of the gross miscovern-ment of its rulers. Then came the Mutiny, It was followed by the transference of the dominions of the East India Company to the Crown, and an irrevocable declaration of policy toward the Native States. In the historic Proclamation of Queen Victoria it was zet out that. "We desire no extension of our present territorial present the proclamation of the present territorial present present t territorial possessions; and while we will permit no aggression on our dominions or our rights to be attempted with impunity, we shall allow no encroachments on those of others. We shall respect the rights, dignity and honour of the Native Princes as our own; and we desire that they, as well as our own subjects, abould enjoy that prosperity and that social advancement which can only be secured by internal peace and good government." Since the issue of that proclamation there has been no encroachment on the area under Native rule by the Government of India. On the

in of 25,182,368 square miles, with a pepulas which had been so long under lightly admission of 25,182,337 of pepulas carried in the following pepulas in the following pepulas is not under lightly total a very were almost forpotten, was restored to the large part is not under lightly total a very were almost one for 10,111 the Malarajah The area control in the Native States is 675,267 of Henare, the great talugian of Outh, was possess miles. The Native States embrace the widest very possess over his extensive possessions. On many occasions the Governments of country and judisdiction. They ment of India has had to intervene, to preventy in size from petty states like Lawa, in vent grows milgovernment, or to carry on the Raipulana, with an area of 19 square miles, administration during a long minority; but and the Simia till States, which are little more always with the underlating intention of research. always with the underlating intention of restoring the territories as soon as the necessity for intervention passed. Almost all states posses the right of adoption in default of heles.

> Rights of Native States. The rights and obligations of the Native States are thus described by the Imperial Garetteer. The Chiefs have, without exception, cained protection against dangers from without and a guarantee that the protector will respect their rights as rulers. The Parameters mount Power acts for them in relation to foreign Powers and other Native States. The inhabitants of the Native States are the subjects of their rulers, and except in case of personal jurisdiction over British subjects, these rulers and their subjects are free from the control of the laws of British India, Criminals es-caping to a Native State must be handed over to it by its authorities; they cannot be arrested by the police of British India without the permission of the ruler of the State. The Native Princes have therefore a surerain power which acts for them in all external affairs, and at the same time scrupulously respects their internal authority. The suzerain also intervenes when the internal peace of their territories is seriously threatened. Finally they parti-cipate in all the benefits which the protecting power obtains by its diplomatic action, or by its administration of its own dominions, and thus secure a share in the commerce, the railways, the ports, and the markets of British india. Except in rare cases, applied to mari-time states, they have freedom of trade with British India although they levy their own customs, and their subjects are admitted to most of the public offices of the British Government.

Obligations of Native States. On the other hand the Native States are under an obligation not to enter into relations with foreign nations or other states; the authority of their rulers has no existence outside their territories. Their subjects outside their territories. Their subjects outside their dominions become for all intents and purposes British subjects. Where foreign interests are concerned, the Paramount Power must act so that no just cause of offence is given by its subordinate allies. All Native States alike are under an obligation to refer to the British every question of dispute with other states. Inamuch as the Native States have no use for a military establishment other than for police, or display, or for co-operation with the Imperial Government, their military forces, their equipment and armament are prescribed by the Paramount Power. Although old and unaltered treatles declare that the British Government will have no manner of concern with any of a Maharajah's dependents or servants, with respect to whom the Mahacontrary; the movement has been in the op- rajah is absolute, logic and public opinion

tween the Native States and the Government of India and its Foreign Department, with the officials of British India and with other Native States. They are expected to advise and assist the Ruling Chiefs in any administrative or other matters on which they may be consulted. Political Agents are similarly employed in the larger States under the Provincial Governments, but in the petty states scattered over British India the duties of the Agent are usually entrusted to the Collector or Commissioner in whose district they lie. All questions relating to the Nativo States are under the special supervision of the Supreme Government, and in the personal charge of the Governor-General. A proposal has been made by the Government of India that, in view of the increasing importance of the Native States, an additional Secretary, styled the Political Secretary, shall be appointed who shall be in special charge, under the Viceroy, of these questions.

Closer Partnership.

Events have tended gradually to draw the Paramount Power and the Native States into closer harmony. Special care has been deveted to the education of the sons of Ruling Chiefs, first by the employment of tutors, and afterwards by the establishment of special tablished at Ajmerc, Rajkot, Indore and La-hore. The Imperial Cadet Corps whose head-

Hyderabad, the premier Native State in India, is in the Deccan. Its area is 82,693 square miles and population 13,874,676. The general physical characteristics of the State are an clevated plateau, divided geographically and ethnologically by the Manira and Godaveri rivers. To the North-West is the Trappean region, peopled by Marathas, a country of black cotton soll,

have endorsed the principle which Lord Cannoble families. The spread of higher educating set forth in his minute of 1860, that the storm has placed at the disposal of the Native Government of India is not precluded from States the products of the Universities. In steeping in to set right such periods aluments ways there has been a steady rise in the in a Native Government as may threaten any in a Native Government as may threaten any character of the administration of the Native part of the country with anarchy or disturbance, nor from assuming temporary charge of a Native State when there shall be sufficient reason to do so." Of this necessity the Government in Council is the sole judge, subject to the control of Parliament. Where the law of British India confers jurisdiction this over the Penjdeh incitent in 1593, the states have a proposed to the control of Parliament. the law of British India conters jurisdiction table over the Penjilch inclient in 1885, the over British subjects or other specified persons states have raised a portion of their forces in foreign territory, that power is exercised up to the standard of the Native troops in the by the British courts which possess it. The subjects of European Powers and the United States are on the same footing. Where can tomments exist in Native territory, jurisdiction both over the cantonment and the civil under the general direction of the Inspectors at alone is excelsed by the suzerain power.

Political Officers. The powers of the British tovernment are armament is the same as that of the Indian exercised through Political Officers who as Army and they have done good service often larger states the Government is represented under their own Chiefs of the Foreign often larger states the Government is represented. a rule reside in the states themselves. In the under their own Chiefs, on the Frontier and larger states the Government is represented in China and in Somulland. Secure in the by a Resident, in groups of states by an Agent knowledge that the Paramount Power will to the Governor-General, assisted by local respect their rights and privileges, the Ruling Residents or Political Agents. These officers Chiefs have lost the suspicion which was comform the sole channel of communication be mon when their position was less assured, and mon when their position was less assured, and the visits of the Prince of Wales in 1875, of the Prince and Princess of Wales in 1905-06, and of the King and Queen in 1911-12 have tended to send the devotion of the great feudatories to the Crown. The improvement in the standard of native rule has also permitted the Government of India largely to reduce the degree of interference in the internal affairs of the Native States. The new policy was authoritatively laid down by Lord Minto, the then Viceroy, in a speech at Udaipur in 1909, when he said:— "Our policy is with rare exceptions, one of

non-interference in the internal infairs of the Nativo State. But in guaranteeing their in-ternal independence and in undertaking their protection against external aggression it naturally follows that the Imperial Government has assumed a certain degree of responsibility for the general soundness of their administration and could not consent to incur the reproach of being an indirect instrument of misrule. There are also certain matters in which it is necessary for the Government of India to safeguard the interests of the community as a whole as well as those of the paramount power, such as militarys, telegraphs and other services of an Imperial character. But the relationship of the Supreme Government to the State is one of suzeminty. The foundation-stone of the whole system is the recognition of the State in the recognition of the whole system is the recogniquarters are at Dehra Dun, imparts military Government and Durbars and the minimum of training to the scions of the ruling chiefs and interference with the latter in their own attains. tion of identity of interests between the Imperial Government and Durbars and the minimum of

HYDERABAD.

is the granatic region of the Telugus and producing rice.

HISTORY.—In pre-historic times Hyderabad came within the great Dravidian zone. The date of the Aryan conquest is obscure, but the dominions of Asoka 272 to 231 B.C. embraced the northern and western portions of the State. Three great Hindu dynastics followed, those of the Pallays. Challenge and Yedgars. In producing wheat and cotton. To the South-East the Pallavas, Chalukyas and Yadavas. In

Kannada, and bulleting on important subjects wilk, large clothes and metal works. A Homo are periodically feated.

AGRICULTURE.-Nearly three-fourths of the population are employed in agriculture and the Coursel system of land tenure is Ryotwari. The principal food crops are rable tice, join, faillets, gram and angarcane and the chief fibres are cotton and san-hemp. Over 24,000 arted. The Department of Argriculture lifch was recently reorganised on a large scale popularising agriculture on scientific lines by icans of demonstrations, investigations and greriments. There is one Central Parm at lebbal to deal with all classes of crops and wo others, one at Hiriyur in connection with otton and crops suited to localities where the ninfall lalight and the other at Marathur in he region of heavy rainfall. A Sugarcane arm has been opened under the new Krishnaajasagara Works.

industries and Commerce,—A Department of Industries and Commerce was organised n 1913 with a view to the development of Iniustries and Commerce in the State. nain functions are stimulating private enterprise by the offer of technical advice and other issistance for starting new industries, underaking experimental work for pioneering inlustries and developing existing industries and serving as a general bureau of information n industrial and commercial matters. A system of granting loans for the purchase of machinery and appliances has been introduced in the State. The manufacturing industries include two cotton mills, two woollen inilis, twelve cotton ginning mills, three cotton presses, and three silk flatures. There are also four oil mills, eleven rice mills, nine augar mills, four brick and tile factories, three eigar savones, three tanneries, lifteen mechanical its that students will undergo a course workshops, two distilleries, one slik recling of three years in the University, but they house, twelve flour mills, three bone-meal will be admitted to the University only after a factories, three coffee curing works, four dyeing year's training in collegiate High Schools. The factories, two hosieries, one brewers, twelve; two colleges are efficiently equipped and organizon and brass foundries, one lacquer work laised and three is a training college for menfactory, two taxidermic works, four saw-mills, located at Mysore, There is also a college for one weaving factory, one Pharmacentical women at Mysore, i.e., the Maharani's College. Works, one wood turning and one art. Lither factories, three tanneries, fifteen mechanical is works, one wood turning and one art Lithographic press. In addition there are fifty-four tion in select towns and the increase in the num. pumping plants for irrigation. The Sandal-wood Oil Factory started on an experimental basis is now working on a commercial scale. Arrangements are in progress to start a large factory at Mysore. Government have sanc-tioned a scheme for the manufacture of paper tioned a scheme for the manufacture of paper and other technical subjects. Adult education pulp from bamboos. Preliminary investigations have been completed for establishing wood distillation and iron works in the State. Local public and 1,850 private educational institutions Syndicates have been formed at Davangere and Mysore for establishing cotton mills at those places. A button factory has just been into places. A button factory has just been started and necessary steps are being taken for starting a soap factory. An Arts and Crafts Depot has been opened to give special encourage-iroads and suburbs. The prominent buildings ment for inlay workers, sandalwood carvers are the Palace, the Chamarajendra Technical and to those engaged in preparing high class i institute, Government House, the Maharaja's

Industries Institute has been established at Bangalore. The establishment of a Central District and Commercial Museum at Mysoro and District Museums at District Hendquarters has been sanctioned. A Chamber of Commerce has been established at Bangalore with branches at important trade centres.

Acres are under multi-rry, the slik industry being the most profitable in Mysore next to gold called the Bank of Mysore was started with mining. A Director of Seri-culture has recentible appointed, arrangements are being at many of the important places in the State, add for the supply of disease per seed and a Baildes this there are one Provincial Bank, mirral and 6 Taluka Popul Schools have been a District Bank, 15 Tedemi Bunking Unions and Son Co-operative Societies working with and son Co-operative Societies working a total working Capital of Rs. 41,21,689.

> COUNTRICATIONS.-The Rallway avatem radiates from Bangalore, various branches of the Madras and Southern Mahratta Rallway running through the State. The length of the lines owied by the State and worked under contract by the State and Norther and the contract by the Company is 411-17 miles, of which 9-88 are of broad gauge and the rest metre gauge. The Kolar District Beard Rallway (84 miles) and the Bangalore-Chick Ballapur Light Italiway (35 miles) both of 2'-6' gauge together with a transway from Tarlkere to Narasimharajapura (27 miles) 2 feet gauge have been opened and are being worked by State Agency.

> A metre gauge line from Mysore to Arsikere ria Hassan 102.3 miles in length is now under construction. The works are almost complete and the line is expected to be opened for traffic shortly. Several other projects were under Survey and investigation during the year and some of them are about to be taken up for construction in the near future.

> University for EDUCATION .- A separate Mysore has been started from 1st July 1016. It is of the teaching and residential type composed of the Central College at Bangalore, and the Maharaja's College at Mysore, with headquarters at Mysore, An important feature is that students will undergo a course

> With the introduction of compulsory educaber of village schools, primary education has during recent years made considerable advance, Schools have been started for imparting instruction in agricultural, commercial, engineering and other technical subjects. Adult education

Troppertor are Interior - acticulture in \$2 of which I unlike is taught. The Barodo and fasture support 65 per cent, of the people. College is adulated to the Dombay University. tobreco, sugarcane, matre, and capten crops in the jurgle tribes and unclean eastes clai concerns in the State registered under the State Companies' Act. There are four Agricultural Banks and 323 Co-operative Societies in Baroda.

COMMUNICATIONS. - The B. B. & C. I. Rollway crosses part of the Naverri and Baroda prantiand the Rajputana-Malwa Rallway and the Ralputana-Maiwa inniway passes through the Kadi prant. A system of branch lines has been built by the Baroda Durbar in all the tory prants, in addition to which the laptic Valley Rallway and the Baroda-Oodhra Chord line (B. B. & C. L.) pass through the State. The Railways constructed by the Dasers State are about 500 miles in length and 125 miles are under construction. Good made are not numemus.

Eproation.-The Education Department controls 2,719 Institutions of different kinds, Devean-Vanubhat N. Mehta,

The principal crops are tice, wheat, gram, There are a number of high selection technical castor-oil, rapeterd, puppy, cotton, tan-bemp, schools, and rebools for special classes, such The greater part of the State is bell on scotic rie State in "in a way pledged to the polley of knum. The State contains few minerals, free and compulsory primary education." It except can islone, which is quarried at Saught, maintains a system of rural and travelling and ararity of other stones which are little libraries. Ten per cent. of the population is worked. There are 34 intuitial or commer returned in the census as literate. Total expense on Education is about its. 20 lakhs.

> CAPITAL CITY .- Baroda City with the cantenment has a population of 99,315. It contains a public park, a number of fine public buildings, palaces and offices; and it is crowded with Hindu temples. The contentual is to the North-west of the city and is garrisoned by an infantry battalion of the Indian Army. An Improvement Trust has been formed to work in Baroda City and has ret it elf an ambitions programmic.

> RULER.-His Highness Farzand-i-Khas-i-Dowlat-I-Englishia Maharaja Sir Sayaji Rao Gackwar Sena Klas Khel, Samsher Bahadur, G.C.S.L., Maharaja of Baroda.

Resident-Lt.-Col. F. W. P. Macdonald,

BALUCHISTAN AGENCY.

In this Agency are included the Native States of Kalat, Kharan and Las Bela. The Khan of Kalat is head of the Baluchistan tribal chiefs whose territories are comprised under the following divisions:-Thalawan, Sarawan, Makran, Kachhi and Domki-Kaheri-Umrani. These Hatchil and Domking the termed Kalati Baluchistan, and occupy an area of 54,713 square miles. The inhabitants of the country are either Brahus or Baluchis, both being Mahomedans of the Sunni sect. The country Nahomedans of the Sunni sect. The country is sparsely populated, the total number being about 336,423. It derives its chief importance from its position with regard to Af-glanistan on the north-western frontier of British India. The relations of Kalat with the British Government are governed by two treaties of 1854 and 1870, by the latter of which the Khan agreed to act in subordinate co-operation with the British Government. There are, however, agreements with Kalat in connection with the construction of the Indo-European telegraph, the cession of jurisdiction on the rallways and in the Bolan Pass, and the permanent least of Quete, Nightly and Nogleyhed nent lease of Quetta, Nushki and Nasirabad. The Klian is assisted in the administration of the State by a Political Adviser lent by the British Government. The Governor-General's Agent in Baluchistan conducts the relations between the Government of India and the Khan, and exercises his general political supervision over the district. The revenue of the State is about its.10.47.214. The present Khan is, Ills Highness Mir Sir Mahmud Khan of Kalat, 6.0.Lr. He was born in 1864.

Klimman extends in a westerly and south- c.s. I

westerly direction from near Nushki and Raiat to the Persian border. Its area is 18,565 square miles, it has a population of 22,663 and an annual average revenue of about Rs. 90,000.

The Chief of Kharan, Sardar Sir Kauroz Khan, R.C.t.E., died in June 1909, and was succeeded by his son, Sardar Yakub Khan The attitude of the new chief towards Govern ment, and his administration generally were unsatisfactory. In 1911, he was murdered by the sepays of his guard. Some trouble was caused by an uncle of the murdered chief, who declared himself Chief, but the Government of India finally recognised the succession of a son, Mir Habibulla Khan, and approved measures for the administration of the State during his minority.

Las Bela is a small State occupying the valley and delta of the Purall river, about 50 miles west of the Sind boundary. Area 7,122 square miles; population 61,205, chiefly Sunul Mahomedans, estimated revenue about Rs. 3,20,256. The Chief of Las Bela, known as the Jam, is bound by agreement with the British Government to conduct the administration of his State in accordance with the advice of the Governor-General's Agent. This control is exercised through the Political Agent in Kalat. The Jam also employs an approved Wazir, to whose advice he is subject and who generally assists him in the transaction of State business.

Agent to the Governor-General for Baluchigtan:-Licut.-Col. Sir John Ramsay, K.O.I.E.,

RAJPUTANA AGENCY.

licle with a total area of about 120,462 square the distinguished from a castel in India which affects which includes 18 Native States, two does not claim descent from of irregular connectivities, and the small little province of them with, one of these Rajout stocks. timer-Merson. It is bounded on the west by ilnd, on the north-west by the Punjab State of The per follows: the Punjab, on the east by the United Prodary runs neross the central region of India in an irregular zig-zag line. Of the Native States 17 are Rajput, 2 (Bharatpur and Dholpur) are Jat, and one (Tonk) is Mahomedan. The chief administrative control of the British district is verted ex-officio in the political officer, who holds the post of Governor-General's Agent for the supervision of the relations between the several Native States of Rajputana and the Government Active States of imputation and the Government of India. For administrative purposes they are divided into the following groups:—Alwar Agency; Bikanit Agency, Eastern Rajputara. Agency; 3 States (Bharatpur, Dholpur Karauli); Haraoti and Tonk Agency, 3 States (principal States, Jaipur); Rotah and Thalagur, Japur); Kotah and Thalagur, Japur); Kotah and Thalagur, Japur); States (principal State, Jaipur); Kotah and Thalagur, Japur); States (Principal State, Jaipur); Rotah and Ilmlawar Agency, 2 Elster: Blewar Residency; Southern Ralputana States Agency, 4 States (principal State, Banswara); Western Raj-putana States Agency; 3 States (principal States, Marwar and Sirohl).

Aravalli Hills intersect the country almost from end to end. The tract to the northwest of the hills is, as a whole, sandy, ill-watered and unproductive, but improves gradually from being a more desert in the far west to comparatively fertile lands to the north-cast. To the south-east on the Arayali Illis lie higher and more fertile regions which contain extensive hill ranges and which are traversed by considerable rivers.

COMMUNICATIONS .- The total length of rallways in Rajputana is 1,570 miles, of which 739 are the property of the British Government The Rajputana-Malwa (Government) runs from Ahmedalad to Bandlkul and from there bran-ches to Agra and Delhi. Of the Native State milways the most important is the Jodhpur Bikaner line from Marwar Junction to Hydera bad (Sind) and to Bikaner.

PRHADITANTS .- Over 50 per cent. of the popu lation are engaged in some form of agriculture about 2C per cent, of the total population are maintained by the preparation and supply of material substances; personal and domestic service provides employment for about 5 per cent, and commerce for 21 per cent, of the population. The principal language is Rajasthani. Among castes and tribes, the most nunerous are the Brahmans, Jate, Mahajans, Chamars, Rajputs, Minas, Gujars, Bhills, Malls, and Balais. The Rajputs are, of course, the aristocracy of the country, and as such hold the land to a very large system this constant. as a landed nobility, and as the kinsmen of ruling chiefs, they are also the aristocracy of

Rajpulana is the name of a great territorisly by observing that there is lardly a title or clan

The population and area of the States are at

Name of State,		147	105ff	epainti e in 1911.
Renar Besidene	; 	:	,	
Udalpur Daganam Dagaspur Partaradh	• •	***	10,057 6 1,016, 1,447 856	100,000,000 100,000 120,100 C2,701
Pertem States Re	riden	اب سائ		
Jodhpar Jokalmer Siroh	• •	, e e e e	31,963 16,662 1,961	2,007,553 FH,511 159,107
Jair ne Resilenc	47			
Jaipur Ki-hanguth Lana	•	 	15,570. 85% 19,	2,029,674 87,191 2,561
Harasti-Tonk A	gerej-			
Bundi Tonk Shahpura	**	**	2,020 1,114 405	213,738 203,151 47,887
Eartern States A	TORCE			
Bharatpur Dholpur Karauli	40	:	1,050 1,165 1,212	628,663 270,073 136,786
Kotah-Jhalaicar	Agen	cy		
Rotah Jimlawat Bikaner	••	**!	5,69# 810 23,311	630,060 96,271 700,835 791,688
	lever Besidene Udalpur Bahanam Bungappur Partaseath Besiden Stoke Be Jodhpur Jalyakurt Strohi Jaipur Residene Jaipur Ki-hangath Lana Harasti-Tonk As Bundl Tonk Shahpura Eastern States A Bharatpur Bholpur Karauli Kotah-Jhalasear	Udalpur Bansann Bringappur Partasath Partasath Berlein Stites Residen Jodhpur Jalvahurt Sirchi Sirchi Jaipur Resilency Jaipur Resilency Bansati-Tonk Agency Bundl Tonk Shahpura Eastern States Agency Bharatpus Bhopur Karauli Kotah-Jhalaucar Agen Kotah	Nami of State. Revar Estilency— Usalpur Banswara Braczapur Partareath Western States Residency— Jodhpar Jalahurt Sirola Jaijur Residency— Jaijur Residency— Jaijur Residency— Bundi Tunk Shahpura Eastern States Agency— Bharatpus Dholpur Karauli Kotah-Jhalancar Agency— Rotah	

Udaipur State (also called Meyerar) founded in about 648 A.D. The capital city is Udalpur, which is beautifully situated on the slope of a low ridge, the summit of which la crowned by the Maharajah's palaces, and to the north and west, houses extend to the banks of a beautiful piece of water known as the Pichola Lake in the middle of which stand two Island priaces. It is situated near the terminus of the Balas. The Rajputs are, of course, the aristoracy of the country, and as such hold the land to a very large extent, either as receivers of rent or as cultivators. By reason of their position as integral families of pure desent, as a landed nobility, and as the kinsmen of seconds Rajputs and succeeded in 1834. He is the head of the ruling chiefs them. acceedin Rajputs and is the Premier Chief. The administration is carried on by the Maharana India; and their social prestige may be measured assisted by two ministerial officers who form the chief executive department in the State. The revenue and expenditure of the State are now about 35 and 32 lakhs a year respectively. Udalpur is rich in minerals which are little worked. Its archwological remains are numerous, and stone inscriptions dating from the third century have been found.

Banswara State, the southernmost in Rajputana, became a separate State about 1527. Towards the end of the eighteenth century Banswara became more or less subject to the Marathas, and paid tribute to the Raja of Dhar. In 1812 the Maharawai offered to become tributary to the British Government on condition of the expulsion of the Marathas, but no definite relations were formed with him till the end of 1818. The present ruler is His Highness Maharawai Sri Prithi Singh Bahadur, who was born in 1838 and succeeded his father in 1013. The normal revenue is about 4 lakhs and the expenditure about 3 lakhs. The area of the State is 1,940 square miles, and the population 187,468.

Dongarpur State, with Banswars, formerly comprised the country called the Pagar. It was invaded by the Mahratas in 1818. As in other States, inhabited by hill tribes, it became necessary at an early period of British supremacy to employ a military force to coerce the Bhills. The State represents the Gadhi of the eldest branch of the Sisodiyas and dates its separate existence from about the close of the 12th Century, when Mahup, the rightful licir to the Chittor Throne, migrated to these parts. The present Chief is His Highness Hol Rayan Maharawal Shri Sir Bileysinghi! Saheb Bahadur, E. O. I. E., born in 1837 and succeeded in 1893. During his minority the State was administered by a Political Officer, a chief Executive Officer and a Consultative Council of two. No railway line crosses the territory, the nearest railway station, Udaipur, being 60 miles distant. Revenue about 3 lakhs.

Partabgarh State, also called the Kanthal, was founded in the sixteenth century by a descendant of itana Mokai of Mowar. The town of Partabgarh was founded in 1698 by Partab Singh. In the time of Jaswant Singh (1775-1844), the country was overrun by the Marathas, and the Maharawat only saved his State by agreeing to pay Holkar a tribute of Salim Shahi its. 72,700, (which then being coined in the State Mint was legal tender throughout the surrounding Native States) in lieu of its. 15,000 formerly paid to Delhi. The first connexion of the State with the British Government was formed in 1804; but the treaty then eatered into was subsequently cancelled by Lord Cornwellis, and a fresh treaty, by which the State was taken under protection, was made in 1818. The tribute to Holkar is paid through the British Government, and in 1904 was converted to Rs. 36,350 Britisheurrency The present ruler is His Highness Maharawat in the state is governed by the Maharawat with the lielp of a Minister, and, in judicial matters, of a Committee of eleven members styled the Raj Sabha or State Council, Bevonue about 7 lakis.

4 lakhs: expenditure nearly 32 takhs. The financial administration is now under the direct supervision of the State.

Jodhpur State, the largest in Rajputana; also called Marwar, consists largely of desolate, sandy country. The Maharaja of Jodhpur is the head of the Rathor Clan of Rajputs and claims descent from Rama the deliled king of Ajodhya. The earliest known king of the clan lived in the sixth century from which time onwards their history is fairly clear. The foundation of Jodhpur dates from about 1212, and the foundations of Jodhpur City were laid in 1459 by Rao Jodha. The State came under British protection in 1818. In 1839 the British Government had to interfere owing to misrule, and the same thing occurred again in 1868. Jaswant Singh succeeded in 1873 and reformed the State. His son Sardar Singh was invested with powers in 1898, the minority rule having been carried on by his uncle Maharaja Sir Pratab Singh. He died in 1911 and was succocded by his eldest son Maharaja Sumer Singh coccled by his cidest son Maharaja Sumer Singh Bahadur, who was then 14 years of age. The administration of the State was carried on by a Council of Regency appointed by the Government, presided over by Major-General Maharaja Sir Pratab Singh, who abdicated the Gadi of Idar to carry on as Regent the reforms in Jodhpur which he had begun in the time of his nephew Maharaja Sir Sardar Singh Bahadur, on the outbreak of the European War both the Maharaja and the Regent offered their services and were allowed to proceed to the Front. The and were allowed to proceed to the Front. young Maharaja was, for his services at the Front, honoured with an Honorary Lleutenantthip in the British Army, and was layested with full ruling powers in 1910, when the Regency terminated. Bovenue 80 lakhs; expenditure 50 lakits.

Jaisalmer State is one of the largest States in Bajputana and covers an area of 16,062 square miles. The Rulers of Jaisalmer belong to the Jadon clan and claim descent from Krishna. Jaisalmer City was founded in 1156, and the State entered into an alliance of perpetual friendship with the British Government in 1818. In 1844, after the British conquest of Sind the forts of Shahgarh, Garala, and Chotaru, which had formerly belonged to Jaisalmer, were restored to the State. The present Ruling Paince is His Highness Maharajadhiraja Maharawal Shri Jawaharsinghji Bahadur. Revenue about four lakhs.

Sirohi State is much broken up by hills of which the main feature is Mount Abu, 5,050 feet. The Chiefs of Sirohi are Beera Rajputs, a branch of the famous Chauhan clan which furnished the last Hindu kings of Delhi. The present capital of Sirohi was built in 1425. The city suffered in the eighteenth century from the wars with Jodhpur and the depredations of wild Mina tribes. Jodhpur claimed successive over Sirohi but this was disallowed and British protection was granted in 1823. The present ruler is His Highness Maharajah Dhiraj Maharao Sir Kesri Singh Bahadur, O.O.L., K.C.L.. The State is ruled by the Maharao with the asvistance of a Mushib Als who is the heir apparent and other officials. Revenue about 8 lakhs; expenditure 7 lakhs.

which claims descent from Rusa, the ten of Rama, king of Ajodhya, and the hero of the lamous epic poem the Ramayana. The dymoved the capital from Amber and built the lakling present city of Jahour and clevated the State above the principalities around. On his death a part of the State was annexed by the Jats of Bharatpur and internal disputes brought Jaipur to great confusion. British protection was extended to Jaipur in 1818, but the State contiqued to be disturbed and a Council of Regency ! was born in 1861, and, in consideration of his youth, the administration was at first conducted ! by a Council under the joint presidency of the Mahamia and the Political Agent. He was invested with full powers in 1882. In 1857, his salute was mised from 17 to 10 guns as a personal distinction, followed in 1800 by two additional guns. In 1888 he was created a 0.c.s.t. In made a Donat of the Order of the Hospital of St. John of Jurusalem. Among important events of His Highness's rule may be mentioned the raising of the Imperial Service Transport Corps in 1880-90; the construction dispensaries; and the gift of 25 lakhs as an endowment to the Indian People's Famine Relief Trust. His Highness has contributed Relief Trust. His Highness has contributed 0.0 lakhs. nachino guns as a thank-offering for the recovery of H. M. the King from his accident in
France. Jaipur City is the largest town in
Kajputana and is one of the few castern cities

belongs to the Pathans of the Buner tribe. twice served in Frontier campaigns and in the present war, and about 5,000 lulantry, 700 cavalry and 800 artillerymen. The normal revenue is about 65 lakhs; expenditure about

Kishangarh State is in the centre of Rajputana and consists practically of two narrow strips of land separated from each other; the

Juliur State is the fourth largest in Ruf- whose second son founded the fown of Richanoutana. It consists, for the most part, of level gash in 1811. The State was brought under
and open country. The Maharaja of Jalpur is british protection in 1818. After various
the head of the Kachwaha clan of Rajpurs, disputes necessitating limitsh mediation, the I det ille were ben ebited been out interested as during the latter part of the alastecath century. The present ruler is Major IIIs Histories Malaries famous epic poem the annual famous part in laster from about masty in Lastern Rojpitana dates from about the middle of the twelfth century, when Amber the Mughale of the twelfth century, when Amber K.C.I.E., Undat required with posterous made the capital of a small State. The was born in 18st and was invested with posterous the Mughale in later centuries, one of the help of a Council of two resinters. His High-back for the Mughale in later centuries, one of the measurement of the Mughale in the later the Mughale in eighteenth century who was remarkable for his though in despatches by Tiept-Marchal Lord scientific knowledge and skill. It was he who Iranch. Resence 5.7 lakks; Extenditure 4.6

Lawn State, or inkurat, of Rajputana is a reparate chiefebly under the pentertion of the British Government and independent of any Native States. It formerly belonged to Jaiput and then became part of the State of Took. 1567, the Namab of Tenk murdered the Tinkur's thured to be disturbed and a Council of Regency and the Saman of 1998 inductions are the mass appointed, which governed up to 1851, when Mailianaja Ram Singh assumed full powers. He nominated as his successor Kalm Singh who knowed to the Present State, The Thakurs of nominated as his successor Kalm Singh who knowed to the Present Thakur, Mapral Madho Singh II, and is the present ruler. He Singh, was born in 1853, and succeeded to the clate in May, 1892. Revenue about Re. 11,000,

Bundi State is a promisingly territory the couth-cast of Rajontars. The Chief of Bundl is the head of the Hara sept of the great clan of Chanhan Ralputs and the country occupled by this sept has for the list five or six eenturies been known as Haraott. The State was guns. In 1888 to was created a 0.0.51. In 1901 a 0.0.1.E., and in 1903 a 0.0.v.o. In 1901 it try and constant feuds with Mewar and Malwa puts, and in 1911 a Major General. In 1903 ite median emperors in the skitecath century, In LLD. of Edinburgh University and in 1912 Marathas and Pindaries and came under lighting protection in 1818 at which time it was paying tribute to Holkar. The present rules of this state—which is administered by the Mahamo Raja and a Council of 5 in an old-fashlourd but popular manner—is His Highners Maharao Raja

Tonk State-Partly in Rajputana and partly France. Jalpur City is the largest town in Rajputana and is one of the few castern cities laid out on a regular plan. It contains, in addition to the Maharaja's Palace, many fine buildings. The administration of the State is carried on by the Maharaja assisted by a Council conditional guerral to the control of the eighteenth century. He received a carried on by the Maharaja assisted by a Council conditional guerral to the control of the eighteenth century. carried on by the Maharaja assisted by a Council conditional guarantee of the lands he held from of ten members. The military force consists of Holkar in 1817. His grandson was deposed in 1807 owing to mismile. The present ruler Holkar in 1817. His grandson was deposed in 1807 owing to misrule. The present ruler of the State is Ills Highness Nawab Sir Muhammad Ibrahim Ali Khan Dahadur, GCLI-The administration is conducted by the Nawab and a Council of three members. Revenue 16 and a Council of three members. lakhs: Expenditure 15 lakhs,

Shahpura Chiefship is a small pastoral atc. The ruling family belongs to the Sec-State. northern mostly sandy, the southern generally flat and fertile. The Chiefs of Kishangarh belong to the Rather clan of Rajputs and are descended from Raja Udal Singh of Jodhpur, sodia cian of Rajputs. The Chiefable came into existence about 1029, being a grant from the Emperor Sinh Jahan to one Sujan Singli. The present Chief is Sir Nahar Singli, F.O.J.E., who discontinuity is the control of full powers in 1876. In addition to holding Pal Deo Bahadur, G.C.I.E., who was born in Shahpura by grant from the British Government 1864, installed in 1889, and invested with powers the Itala Dhiraj possesses the estate of Kachhola in 1889. He is assisted by a council of two in Udaipur for which he pays tribute and does formal service as a great noble of that State. Revenue 3 lakhs: Expenditure 2.6 lakhs.

Bharatpur State consists largely of an lumense alluvial plain, watered by the Banganga and other rivers. It passed into the liands of Mahomed Ghorl at the end of the twelfth century and for 500 years was held by whatever dynasty ruled in Delhi. The present ruling family are Juts, of the Sinsinwal clan, who trace their pedigree to the eleventh century. The Bharatpur ruling family is of the Sinsinwal clan named so after their old village Sinsini. Bharatpur was the first State in Jinjputana, that made alliance with the British Government in 1803, helped Lord Lake with 5,000 horse in his conquest of Agra and battle of Laswari wherein the Maratha power was entirely broken and received five districts as roward for the service. In 1804, however, Bharatpur sided with Jaswant Rao Holkar against the Government which resulted in a fight with the Covernment. Peace was re-established in 1805 under a treaty of alliance and it continues in force. The State, being usurped by During Sal in 1825, the Drittin Government took the cause of the rightful heir Mahurala Balwant Singh Salab. Bharatpur was besieged by Lord Combernere and, as the faithful subjects almost all joined the British Army, the result could not be otherwise than capture of the Capital and restoration of the State to its rightful owner. Bharatpur ren-dered valuable service to the British Government during the Mutiny. The present chief is a minor, Maharaja Sawai Kishen Singh Baladur, who was born in 1890 and succeeded in the who was born in 1809 and succeeded in the south-east of Rajputana. The ruling family following year, his father, Ram Singh, who was belongs to the Jhala clan of Rajputs. The last deposed. The administration is carried on by a ruler was deposed for misgovernment in 1896, Council of four members are last of the council of the company of the council of Council of four members presided over by a Political Agent. Revenue 38 lakbs: Expendiinre 37 lakhs.

Dholpur State, the casternmost State in Rajputana, has changed hands an unusual number of times. It was occupied by the Briti-h in 1803 and restored to the Gwallor Chief who formerly owned it, but by a fresh arrange-ment of 1805 it was constituted a State with other districts and made over to Maharaj Rana Kirat Singh, in exchange for his territory of Golad which was given up to Sindhia. The ruling family are Jats of the Damusolia clan, the latter name being derived from a place near Agra where the family held land in the twelfth century. The present chief-who is assisted in the administration by three Ministers-is II. II. Maharaj Rana Udaibhan Singh Lokinder Baliadur. He was born in 1893 and succeeded in 1911. Revenue 15 laklis: Expenditure 12 lakhs,

Karauli State is a billy tract in Eastern Rulputana, of which the ruler is the head of the Jadon clan of Ralputs who claim direct descent from Kridina and were at our time very powerful. On the decline of the Mughal power the State was subjurated by the Marathas, but by the treaty of 1617 it was taken under British

members, Revenue 6 lakhs; Expenditure 5 laklıs.

Kotah State belongs to the Harn sect of the clan of Chauhan Rajputs, and the early history of their house is, up to the 17th century, identical with that of the Bundi family from which they are an offshoot. Its existence as a separate State dates from 1825. It came under British protection in 1817, but a dispute as to the succession made armed intervention necessary in 1921 when the Mahamo was defeated at the battle of Mangrol. This dispute (due to the fact that an arrangement had been made by which one person—Zalim Singh—was recog-nized as the titular chief and another—Umeed Singh-as the guaranteed actual ruler) broke out again in the thirties when it was decided with the consent of the Chief of Kotah to dismember the State and create a new principality of Jhalawar as a separate provision for the descendants of Zalim Singli. The present ruler is H. H. Liout, Colonel Maharao Sir Umed Singh Bahadur, G.C.S.I., G.O.L.L., who was born in 1873 and invested with full powers in 1896. In administration he is assisted by a Diwan (Dowan Bahadur Chaube Raghunath Das. C.S.I.) The most important event of his rule has been the restoration, on the deposition of the late chilef of the Jhalawar State, of 15 out of the 17 districts which had been ceded in 1838 to form that principality. Revenue 40 lakins: Expenditure 34 lakhs.

Jhalwar State (for history see under Kotah) consists of two separate tracts in the part of the State was reassigned to Kotah, and Kunwar Bhawani Singh, son of Thakur Chhatar-salji of Fatchpur, was selected by Government to be the Chief of the new State. He was born in 1874 and was created a K.C.S.I. In 1908. He is assisted in administration by a Council, has established many useful institutions, and has done much to extend education in the State. Revenue 6 laklis,

Bikaner State, the second largest in Rajputana, consists largely of sandy and ill-watered land. It was founded by lilka, a Rathor Rajput, the sixth son of a Chief of Mar-war, in the 15th century. Ital Singh, the first Raja, was one of Akbar's most distinguished generals and built the main toot of Ullianer. generals, and built the main fort of Dikaner, Throughout the 18th century there was constant fighting between Bikaner and Jodhpur. In 1818 the Maharaja invited the assistance of British troops to quell a rebellion, and subsequently a special force had to be raised to deal with the dacoits on the southern borders of the State. The Tinkurs of the State continued to give trouble up to the cightles. The present chief is Colonel H. H. Maharajah Sir Ganga Singh Bahadur, O.C.B.L., G.C.L.E., A.D.C. to the King, who was born in 1830 and invested with fall powers in 1893. He mixed an Imperial Service protection. Its subsequent history is of inter- Camel Corps which served in China and Somalicat chiefly for a famous adoption case, in 1852, land, and His Hickness served in the former The present ruler is H. H. Maharaja Sir Banwar campaign himself, being mentioned in desA coal time 18 lakher there are no debts. The capital is Afrez on the Rajousan A coal man is worked at Palama, 14 miles couth. Railway, 53 miles couth work of 18:16. of the capital.

Alwar State is a hilly tract of land in the Est of Rajputana. Its chiefs belong to the Lalawat branch of the Naruka Majputs, an offshoot from the Rachwaha Rajputs, of whom Resident—C. L. 9. Record, the Maharala of Jalput is the head. The State was founded by Pratab Singh, who before his death in 1701 had recuted power-don of large portions of the Jaipur State. His successor sent a force to co-operate with Lord Lake in the war of 1803 and an alliance was concluded with him in that year, when the boundaries of the State as now recognised were fixed. Various rebellions and disputes about succession mark the history of the State during the earlier part of the nineteenth century. The present chief, H. H. Lt.-Col. Sawat Maharaja hir Jey slaghji Bahadur, E.C.S.L., E.C.L.E., who was born in 1832, succeeded his father in 1892 and was

irs. In 1909 he was awarded the first class threated with power in 1912. We carrie on the r-l-Hind medal for the active part by took admind tration with the accidence of a formed policying the great famine of 1893-1990. He of faur Ministers, Month is not fill Highway, honorary Lup. of Cambridge. In administ Council and various bonds of departments. The on His Highness is assisted by five error sormal retends and expendingle are about the to each of upon are allotted certain Re. 32 lakks a year. The State maintains are fepartments; and there is a council of five limperial engine a part, and there is a council of five limperial engine is reflected of extalpy, Apolloc but is consulted in matters of importance. Maharaja was the first force of the Registrate to five normal revenue is Registrate and the long rith irreducing the first of the Registrate to five normal revenue is Registrate and the long rith irreducing the defence of the Registrate and the long rith irreducing the defence of the Registrate and the latter are now deliced. The capital is Alway on the Halfattana-Mulea

TARTETANA.

Agent fi Correner-General-Bir R. G. Calvin. METAL.

Jurez

Resilent-Lient-Col. R. A. E. Bion. Desprin Baseviana States Pelifical Agend-Major G. H. Anderson-

Western Hubertana States. Resident-Lient, Cot. C. J. Windhita.

HARLOTI AND TONK.

Political Agent-9, a. Waterbeld. ROTAR AND JUSTAWAR.

Political Agent-Lieut-Col. A. B. Diemamond.

CENTRAL INDIA AGENCY.

the agency into two main divisions—Bundel-khand and Baghelkhand tying to the east, and Central India proper to the west. The total area covered is 78,772 square miles, and the population (1911) amounts to 03,950. The great majority of the people are Hindus. The principal States are eight in number-Guallor, Indore, Bhopal, Rewa, Dhar, Jaora, Datia and Orchul of which two, Bhopal and Jaora, are Maliomedan and the rest are Hindu. Berides these there are a multitude of perty States held by their rulers under the immediate guarantee of the British Government, but having feudal relations with one or other of the larger States. The total number of States amounts to 152. For administrative purposes they are divided into the following groups: Bachelkhand Agency, 12 States (principal State Rewa): Bhopal Agency, 19 States (principal Bhopal) State Bhopal Agency, 19 States (principal Bhopal): Bundelkhand Agency, 22 States (principal State Dhar): Bundelkhand Agency, 22 States (principal State, Gwalior): Indore Residency, 5 States (principal State, Gwalior): Indore Residency, 5 States (principal State, Indore): Malwa Agency, 38 States (principal State, Indore): Malwa Agency, 38 States (principal State, Jaora). The Agency may be divided into three natural divisions, the plateau, lowlying, and hilly. The plateau tract includes the Malwa plateau, the Highland tract stretching from the great wall of the Vindhyas to Marwar, the land The total number of States amounts to 153. great wall of the Vindhyas to Marwar, the land

Central India is the name given to the country of open rellies Plains. The lowiging tract occupied by the Native States grouped teacher in the supervision of the Political Officer in charge of the Central India Asency. Three States he between 21° 24' and 20° 32' N, lateral between 21° 24' and 20° 32' N, lateral between 31° 20' and 63° 0' E, long. The British districts of Janu-1 and Lalitpur divide the agency into two main divisions—flunded. The territories of the different States are much The territories of the different States are much interminated, and their political relations with the Government of Indla and each other and very varied. Eleven Chiefs have direct treaty engagements with the British Government.

> The following list gives the approximate size population and tevenue of the eight principal States above mentioned :-

١		the same of the sa			
	Name.		Area in Equate miles.	Papu- lation,	Revenue
			,		Re. Likh
	Gwallor Indore	• •	25,133 9,503	3,102,270 1,007,859	149 70
	Bhopal Rewali	••	6,902 13,000	730,393 1,514,843	23
	Uhat Jaora	••	1,783 563	154,070	p
1	Datia Orcha	***	2,079	154,603 330,032	9
1	1		} '	1	1

. Conditry, will be given and more than 155 in account for they are not grown after given an open percell in assista-tion for the description with a sea a count, may not be given a contraction for the profession. Condition for a standard and a constraint, and the condition of the condit And the fact plant of the second state of the

Gla, if Carn, if Cart, a project the King. He would Bloom and toy the agreement of 1817 agreeded in 14-0 and of third from h. Physol and thook to assist the British with a 1571. In first he west to China during the Mare he bells the rank of henciary Major-Greenled the Prittel Army and the henciary Grames of it partended by seed part. Oxon Hale show Donet of the Order of St. John of Jerusalem in Highand. The alministration is members of the Maille delling.

The northern part of the State is travered by to the south of the ancient city and the fort of Gwallor. Annual expenditure 144 lakhs,

Indore. - The Holkars of Indore belong to the shepherd class, the founder of the house, Malliar Rao Holkar, being born in 1693. His soldierly qualities brought him to the front under the Yeshwa, who took him into his service and em-ployed him in his conquests. When the Maratia power was broken at the battle of Panipat, in 1701, Mathar Rao had acquired vast territories stretching from the Decean to the Ganges. He was succeeded by a lunatic grandson who again was succeeded by his mother, Ahilya Bal, whose administration is still looked upon as that of a model ruler. Disputes as to the succession and other causes weakened this powerful State, and, when it assumed a hostile attitude on the out-break of war in 1817 between the British and the Pesliwa, Holkar was compelled to come to terms. The Treaty of Mandaser in 1818 still governs the regulations existing between the state and

even to a live they were to need it by lide thirt and towns on the to a first they are the first they are

It is the test the treater of balled filters, which is the first the points and the first in the The present rules is Majordier and R. H. In the early part of the latherntury, the Nawalis Hallarian St. Madio Ran Aljah Bahudur teins succeptually will aloost the investe of Scindin Pleyel and stock to assist the British with a contingent force and to co-operate against the Pin fari I ands.

The present Ruler of the State, Her Highness Nawah Sultan Jahan Begum, C. I., G.C.S.I., B.C.L.E., Is the third in the successive line of controlled by the Maharaja assisted by five lady-rulers, who have ruled the destinics of the State with marked ability. Having succeeded in 1001, she personally conducts, and has in-troduced a number of reforms in the administhe G. I. P. Ballinay and two branches run from trattom of her state. Her eldest son, Hon. Bhopal to Uljain and from him to Blanch. The Major Nawab Mahomad Kasrullah Khan, confinalize Light Ballinay runs for 250 miles from Major Nawab Mahomad Kasrullah Khan, confinalize to Brind, from Gwaller to Brind, from Gwaller to Spiri. The main industries are critical gianting, which is done all over the State; the muslim made at Chanderi, leather the State Mannada Mahomad Obaltical from muslim made at Chanderi, leather the State from the Brinder Chief of the State Formander-instate; the muslim made at Chanderi, leather Chief of the State Forma, is the Commander-instate; the state maintains three regiments. Nawabrada, Mahomad Hamiduliah Khan, B.A., of Imperial Service Cavalry, two battalions of Imperial Service Infantry and a transport head of her Highers Secretariat and Tresident corps. Lashkar, the capital city, is two miles of the Council advising the Darbar on Municipal to the routh of the ancient city and the fort of affairs. The State maintains affairs. The State maintains one regiment each of Imperial Service Cavalry and Infantry. The capital, Bhopal City, on the northern bank of an extensive take is situated at the junction of the G. I. P. Ry. with the Bhopal Ulfain Rallway.

Rewah .- This State lies in the Baghelkhand Agency, and falls into two natural divisions separated by the scarp of the Kalmur range. Its Chiefs are Baghel Rajputs desemded from the Solanki clan which ruled over Gujrat from the tenth to the thirteenth century. In 1812, a body of Pindaries midea Mirzapur from Rewah territory and the chief, who had previously rejected overtures for an alliance, was called upon to accede to a treaty acknowledging the protection accede to a treaty acknowledging the protection of the British Government. During the Mutlay, Rewall offered troops to the British, and for his services then, various parganas, which had been seized by the Maratias, were restored to the Rewall Chief. The present chief is II. II. Maharaja Sir Venkat Raman Singh, G.O.S.I., who was born in 1870. He is assisted in the administration by two Compulsioners one for revenil. the British Government. In the mutley of who was born in 1870. He is assisted in the admi-1857, when Holkar was unable to control this nistration by two Commissioners, one for revenue

atters and one for judicial. The State force | Balbhadra Singh (b 1907) is being (ducated at a sist of about 1,700 men. The State is famous | the Daly College. : Its archeological remains and is rich in nerals, coal being inined at Umaria. The erago expenditure is Rs. 11 laklis.

har. This State, under the Bhopawar ency, takes its name from the old city of long famous as the capital of the Paraar, long famous as the capital from its Rajputs, who ruled over Malwa from whom ith to the thirteenth century and from whom present chiefs of Dhar-Ponwar Marathasim descent. In the middle of the 18th century chief of Dhar, Anand Rao, was one of the ding chiefs of Central India, sharing with ilkar and Sindhia the rule of Malwa. But in 19, when a treaty was made with the British, e State had become so reduced that it consistof little more than the capital. The ruler is H. Raja Sir Udaji Rao Ponwar, E.C.S.I., 10 was born in 1880, and has control of all vil, judicial, and ordinary administrative atters. There are 22 feudatories, of whom i hold under a guarantee from the British overnment. The average expenditure is pout 8 lakhs.

Jaora State.-This State is in the Malwa gency covering an area of about 600 square illes with a total population of 82,407, and as its head quarters at Jaora town. The first awab was an Afghan from Swat, who had ome to India to make his fortune, found apployment under the freebooter Amir Khan, mployment under the freebotter Amir Amir, and obtained the State after the treaty of Manisore in 1818. The present chief is Major H. H. Sir Iftikhar All Khan Bahadur, E.C.L., who was born in 1883 and is an Honorary Major in the Indian Army. The soil of the State is among the releast in Malwa, being the latter of the Batter mainly of the best black cotton variety, bearing excellent crops of poppy. The average annual revenue is Rs. 9,78,909.

Ratiam—Is the premier Rajput State in the Malwa Agency. It covers an area of 871 square miles, including that of the Jagir of Khera in the Kushalgarli Chiefship, which pays an annual tribute to the Ratiam Darbar. The State was founded by Ratausings, a great grandson of Raja Udai Singh of Jodhpur, in 1652. The Raja of Ratiam is the religious head of the Rajputs of Maiwa, and important casto questions concerning even Thakurs tributary to other chiefs are referred to him for decision. The present Chief of Rutlam is Col. His Highness Raja Sir Sajjan Singh, K 0.8.1., who was born in 1880, and invested with full powers in 1898. In administration His Highness is assisted by a Council of four members. Since April 1915, His Highness has been serving at the front in France.

Senior Member of Council,—Rai Bahadur Brijmohannath A. Zutshi, B.A., LL.B.

Datin State. - The chiefs of this State, in the Bundelkhand Agency, are Bundela Bajputs of the Orchha house. The territory was granted by the oblef of Orchha to his som Bhagwan Rao in 1020, and this was extended by conquest and by grants from the Delhi emperors. The present chief is H. H. Maharaja Lokendra Govind Singh Bahadur who was born in 1830 and succeeded

Orchin State. The chiefs of this State are Bundela Rajputa claiming to be descendants of the Gaharwara of Benares. It was founded as an independent State in 1018 A. D. It entered as an independent Such The British by the treaty made in 1812. The present ruler is His Highness Sir Pratap Single, O.C.S.L., who was born in 1854. He had the title of Saramad-I-Rajaha-I-Bundel-the title of Saramad-I-Rajaha-I-Bundelthe title of Saramad-I-Rajaha-J-Bundel-khand Maharaja Mahendm Sawal Balandur. kinaid manaraja manendin sawai manadir. The State has a population of 230,032 and an area of 2,030 aquare miles. The capital is Tikamgarh, 36 miles from fallipur on the C. I. P. Ballway. Orchia, the old capital, has fallen into decay but is a place of interest on account of its magnificent buildings of which the finest were erected by Bir Singh Deb, the most lamous rules of the State (1905-1907). lamous ruler of the State (1005-1027).

Agent to Governor-General-O. V. Bo-anquet,

INDORE.

Resident - Vacant.

BHOP AL.

Political Agent-Lt. Col. F. W. P. Macdonald BUNDELKHAND.

Political Agent-Lieut.-Col. P T. A. Sprner, BAGHELEHAND.

Political Agent-Lieut.-Col. 1', G. Beville.

BHOPAWARL

Political Agent-1. M. Crump.

Sikkim.

Sikkim is bounded on the north and north-east by Tibet, on the south-east by Bhutan, on the south by the British district of Darjeeling, and on the west by Nepal. The population coneists of Bhutlas, Lepelas, and Nepalese. It forms the direct route to the Chumbi Valley in Tibet. The main axis of the Illmalayas, which runs east and west, forms the boundary between Sikkim and Tibet. The Singalila and Chola ranges, which run southwards from the main chain, separate 81kkim from Nepal on the west, and from Tibet and Bhutan on the cast. From the eastern flank of the Singalila range rion the eastern man of the singular range rise the great show peaks of Kinchinjunga (28,146 feet), one of the highest mountains in the world; it throws out a second spur terminating at Tendong. The Chola range which is much loftler than that of Singallia; leaves the main chain at the Dongkya mountain.

Tradition says that the ancestors of the rajas of Sikkim originally came from eastern Tibet. The State was twice invaded by the Gurkhas at the end of the eighteenth contury. On the out-break of the Kopal War in 1814, the British formed an alliance with the Raja of Sikkim and at the close of the war the Raja was rewarded by a considerable accession of territory. In 1835 the Bahadur' who was born in 1830 and succeeded Raja granted the afte of Darjeeling to the British in 1907. The heir-apparent, Raja Bahadur and received Rs. 3,900 annually in lieu of it. This grant was stopped and a part of the State tish Agent hospitably at his capital. The ras annexed for the seizure and detention of ruler is now known as H. H. the Maharaja of r. Campbell, the Superintendent of Darjeeling, nd Dr. Hooker, the famous naturalist, in 1849. he State was previously under the Government I Bengal, but was brought under the direct upervision of the Government of India in 1906. he State is thinly populated, the area being 1818 square miles, and the population 87,920, hiefly Buddhists and Hindus. The most invortant crop is malze. There are several trade outes through Sikkim from Darjeeling District ito Tibet. In the convention of 1890 provilon was made for the opening of a trade route out the results were disappointing, and the allure of the Tibetans to fulfil their obligations caulted in 1904 in the despatch of a mission o Linas, where a new convention was signed. Crade with the British has increased in recent rears, and is now between 40 and 50 lakhs rearly. Anumber of good roads have been constructed in recent years. The present uler, His Highness Maharajah Tashi Namgyal, was born in 1893 and succeeded in 1914. The Political Officer stationed at Gangtok udvises and assists the Maharajah and his Council. The average revenue is Rs. 2,02,000.

Political Officer in Sikkim:—C. A. Bell, C.M.C.

Bhutan.

Bhutan extends for a distance of approximately 190 miles cast and west along the southern slopes of the central axis of the Himnlayas, adjacent to the northern border of Eastern Bengal and Assam. Its area is 18,000 square miles and its population, consisting of Buddhists and Hindus, has been estimated at 800,000 line country formerly belonged to a tribe called Tek-pa, but was wrested from them by some Tibetan soldiers about the iniddle of the seventeenth century. British relations with Bhutan sommenced in 1772 when the Bhotas invaded the principality of Cooch Behar and British ald was invoked by that State. After a number of inida but the Bhotases, in the Second Se was invoked by that State. After a number of aids by the Bhutanese into Assam, an envoy 'the Hon. A. Eden) was sent to Bhutan, who was pressly insulted and compelled to sign a treaty urrendering the Duars to Bhutan. On his eturn the treaty was disallowed and the Duars innexed. This was followed by the treaty of 1805, by which the State's relations with the Government of India were satisfactorily regulated. (The State tormesty received any allowered) ated. The State formerly received an allowance of half a lakh a year from the British Government in consideration of the cession in 1865 of some areas on the southern borders. This humbl, but their ruler, the Tongas Penlop, ment and by Mr. Asquith in his Gindhall Speech accompanied the British troops to Liasa, and la 1015.

I from the foregoing account of the bistory of Keolle, and he has since entertained t Brist Will be seen that the Government of

Bhutan, Sir Uggen Wangchuk, E.C.S.I., E.C.I.L. At the head of the Bhutan Government, there are nominally two supreme authorities; the Dharma Raja, known as Shapting Renipoche, the spiritual head; and the Deb or Depa Raja, the temporal ruler. The Dharma Raja is regarded as a very high incarnation of Buddha; far higher than the ordinary incarnations in Tibet, of which there are several hundreds. On the death of a Dharma Raja a year or two is allowed to clapse, and his reincarnation then takes place, always in the Choje, or royal family of Bhutan.

Cultivation is backward and the chief crop is malze. The Military force consists of local levies under the control of the different chiefs. They are of no military value.

Nepal.

The kingdom of Nepal is a narrow tract of country extending for about 520 miles along the southern slope of the central axis of the Himalayas. It has an area of about 54,000 square miles, with a population of about 5,000,000, obicity Hindus. The greater part of the country is mountainous, the lower slopes being cultivated. Above these is a rugged broken wall of rock leading up to the chain of snow-clad peaks which culminate in Mount Everest (20,002 feet) and others of slightly less altitude. The country before the Gurkha occupation was split up late several small kingdoms under Newar kings. The Gurkhas under Prithyl Karayan Shaba Courses and congress of the Allerent Shah overran and conquered the different kingdoms of Patan, Kathmandu, and Bhatgaon, and other places during the inter half of the 18th century and since then have been rulers of the whole of Nepal. In 1840 the head of the Rana family obtained from the sovereign the perpetual right to the office of Prime Minister of Nepal, and the right is still enjoyed by his descendant. In 1850 Jung Bahadur paid a visit to England and was thus the first Hindu Chief to leave India and to become acquainted with the power and resources of the British nation. The relations of Nepal with the Government of India are regulated by the treaty of 1816 and subsequent agreements by which a representative of the British Government is received at Kathmandu. This British representative las come to be styled as Resident though his func-tion differs much from that of a Resident at the courts of the Native States of India. By virtue of the same treaty Nepal maintains a Represenof the same treaty Nepal maintains a Representational relations with cluded in January 1010, by which the Bhutaless Government bound itself to be guided by the advice of the British Government in recard the advice of the British Government in recard to its external relations, while the British Jovernment undertook to exercise no interspective of the treaty of 1816 the friendly relations with the British of the internal administration of Blutan. It and a research Prince on the occasion of the Tibet Bission Minister. Minister is evidenced by the valuable friendly help in men and money of 1901, the Bhotlas gave strong proof of their by the valuable friendly help in men and money riendly attitude. Not only did they consent to which has been given and which was appreciatio survey of a road through their country to tively mentioned in both the Houses in Parlia-

the country has generally been in the hands of the Minister of the day. Since the time of Jung Bahadur this system of government has been learly laid down and defined. The sovereign, clearly laid down and defined. The sovereign, or Mahad Dhing as he is called in but a large land. Minister and Marshall of Nepal since June, 1901. cicariy iaid down and defined. The sovereign, or Maharaj Dhiraj, as he is called, is but a dignified figure-head, whose position can best be likened to that of the Emperor of Japan during the Shegunate. The real ruler of the country is the Minister who, while enjoying complete monopoly of power, couples with his official rank the exalted title of Maharaja. Next to him comes the Commander in Chief Next to him comes the Commander-in-Chief, who ordinarily succeeds to the office of Minister. The present Minister at the head of affairs of Repal is Maharaja Sir Chandra Shum Shere Jung Bahadur Rana, G.C.E., G.C.E.I., G.C.V.O. D.C.L. and Honorary Lieut.-General in the

Rice, wheat and malze form the chief crops in the lowlands. Mineral wealth is supposed to be great, but, like other sources of revenue, has not been developed. Communications in the State are primitive. The revenue is about two crores of rupees per annum. The standing army is estimated at 45,000, the high posts in it being filled by relations of the Minister. The State is of considerable archeological interest and many of the sites connected with scenes of Buddha's life have been identified in it by the remains of Inscribed pillars.

Resident: Lieut .- Col. S. F. Bayley.

NORTH-WEST FRONTIER STATES.

The native states of the North-West Frontier Provinces are Amb, Chitral, Dir, Nawagal (Bajaur), and Phulera. The total area is about (asjaur), and rauers. The total later is about 7,704 square miles and the population, mainly aliabomedan, is 1,622,094. The average annual revenue of the first four is about Rs. 4,65,000; that of Phulera is unknown.

Amb.—Is only a village on the western bank of the Indus in Independent Tanawala.

Chitral,-Runs from Dir to the south of the Hindu-Kush range in the north, and has an area of about 4,500 square miles. The ruling dynasty has maintained itself for more than three hundred years, during the greater part of which the State has constantly been at war with . its neighbours. It was visited in 1895 by the Lockhart Mission, and in 1889, on the establishment of a political agency in Glight, the ruler of Chitral received an annual subsidy from the British Government. That subsidy was increased two years later on condition that the ruler, Amam-ul-Mulk, accepted the advice of the British Government in all matters connected with foreign policy and froutler defence. His sudden death in 1892 was followed by a dispute as to the succession. The cidest son Nizam-ul-Mulk was, succession. The cldest son Nizam-ul-Mulk was recognised by Government, but he was murdered in 1895. A religious war was declared against the infidels and the Agent at Gligit, who had been sent to Chitral to report on the situation, was besieged with his escort and a force had to be despatched (April 1895) to their relleL

The three valleys of which the State consists are extremely fertile and continuously culti-vated. The internal administration of the country is conducted by the Mehtar, and the l

foreign policy is regulated by the Political Agent.

Dir.-The territories of this State, about 5,000 square miles in area, include the country drained by the Panikora and its affluents down to the junction of the former live, when the Bajaur or Rud, and also the country east of this from a point a little above Timh in Upper Swat down to the Dush Khel Country, following the cloth bank of the Swat river throughout. The to the junction of the former river with the Khan of Dir is the overlord of the country, exacting allegiance from the petty chiefs of the clans. Dir is mainly held by Yusufzai Pathans, the old non-Pathan inhabitants being now confined to the upper portion of the Panjkora Valley known as the Bashkar.

Bajaur.—Nawagai is a tract of country included in the territories collectively known as Bajaur which is bounded on the north by the Panjkora river, on the east by the Utman Khel and Mohmand territories and on the west by the watershed of the Kuna river which divides it from Afghanistan. The political system, if it can be termed system, is a communal form of party government, subject to the control of the Khan of Nawagal, who is nominally the heredi-tary chief of all Bajaur. Under him the country is divided into several minor Khanates, each governed by a chlettain, usually a near relative of the Khan. But virtually the authority of the chieftains is limited to the rights to levy tithe; or ushar, when they can enforce its payment; and to exact military service if the tribesmen choose to render it.

Political Agent for Dir. Swat and Chitral, Major W. J. Keen,

NATIVE STATES UNDER LOCAL GOVERNMENTS.

The Native States covering an area of 10,037 square miles. Of these the States of Travancore and Cochin represent ancient Hindu dynasties. Pudukottal is the inheritance of the chieftain called the Tondiman. Banganapalle and Sandur, two petty States, of which the first is ruled by a Nawab, lie in the centre of two British districts.

Name.	Area rq. miles.	Popula- tion.	Approx. Revenue in lakhe of rupees.
Traváncore .	7,129	3,428,975	128
Cochin .	1,361	918,110	47
Pudúkottal .	1,178	411,878	16
Banganapalle .	255	39,356	2.8
Sandur .	161	13,517	1.7
	1	, .	

Travancore-This State occupies the southvest portion of the Indian Peninsula, forming an irregular triangle with its apex at Cape Comorin. The early listory of Travancore is in great part traditional; but there is little doubt that H. H. the Maharaja is the representative of the City of the Company of the City of the Cit tative of the Chera dynasty, one of the three great Hindu dynasties which exercised soverc-ignty at one time in Southern India. The petty chiefs, who had subsequently set up as independent rulers within the State, were all subdued, and the whole country, included within its present boundaries, was consolidated and brought under one rule, by the Maharaja Marthanda Varma (1729-58). The English first settled at Anjengo, a few miles to the north of Trivandrum, and built a factory there in 1684. In the wars in which the East India. Company were engaged in Madura and Tinne-yelly, in the middle of the 18th century, the Travancore State gave assistance to the British authorities. Travancore was reckoned as one of the staunchest allies of the British Power and was accordingly included in the Treaty made in 1784 between the East India Company and the Sultan of Mysore. To protect the State from possible inroads by Tippu, an arrangement was come to in 1788 with the East India Company, and in 1795 a formal treaty was concluded, by and in 1705 a formal treaty was concluded, by which the Company agreed to protect Travancore from all foreign enemics. In 1805 the annual subsidy to be paid by Travancore was fixed at 8 lakhs of rupees.

The present ruler is His Highness Maharaja Sir Rama Varma, G.C.S.I.; G.C.I.E.; who was born in 1857 and ascended the masmad in 1895.

includes 5 | years and the State takes a leading place in that respect. The principal food grain grown is rice, but the main source of agricultural wealth is the cocoanut. Other crops are pepper, area-nut, jack-fruit and taploca. Cotton weav-ing and the making of matting from the coir are the chief industries. The State is well provided with roads, and with a natural system of back-waters, besides canals and rivers navigable for country crafts. Two lines of rallways intersect the country, the Cochin-Shoranore in the north-west and the Tinnevelly, Quilon passing through the heart of the State. A third line, from Quilon to Trivandrum, is in process of construction. The capital is Trivandrum,

Political Agent: H. L. Braidwood,

Cochin. -This State on the -outh-west coast of India is bounded by the Malabar District of the Madras Presidency and the State of Travancore. Very little is known of its early history. According to tradition, the Rajas of Cochin hold the territory in right of descent from Cheraman Perumal, who governed the whole country of Kerala, including Travancore and Malabar, as Viceroy of the Choia Kings about the beginning of the ninth century, and afterwards estab-lished himself as an independent Buler. In 1502, the Portuguese were allowed to settle in what is now British Cochin and in the following year they built a fort and established commercial relations in the State. In the carlier wars with the Zamorin of Calleut, they assisted the Rajas of Cochin. The influence of the Portuguese on the west coast began to decline about the latter part of the seventeenth century, and in 1663 they were ousted from the town of Cochin by the Dutch with whom the Raja entered into friendly relations. About a contury later, in 1759, when the Dutch power began to decline, the Raja was attacked by the Zamorin of Callcut, who was expelled with the assistance of the Raja of Travancore. In 1776, the State was conquered by Hyder All, to whom it remained tributary and subordinate, and subsequently to his son, Tippu Sultan. A ready was concluded in 1791 between the Raja and the East India Company, by which His Highness agreed to become tributary to the British Government for his territories which were then in the possession of Tippu, and to pay a subsidy.

His Highness Sir Sri Rama Varmali, a.a.s.i. O.O.I.E., who was born in 1852, and who a cended the ma-nad in 1895, having abdicated in December, 1914, His Highness Srl Rama Varmah, who was born on 6th October, 1858, sucreeded who was norm on the occoper, reset, succeeded to the throne and was duly installed as Roja on the 21st January 1915. The administration is conducted under the control of the Raja who e chief Minister and Executive Officer is the D wan (J. W. Bhore). The forestr of Cochin form one of its most valuable of the True abound in the True. fine government is conducted in his name with Officer is the D wan (i. W. libor). The heast-stance of a Dowan (M. Krishnan Nair). Officer is the D wan (i. W. libor). The heast-stance of a Dowan (M. Krishnan Nair). forests of Cochin form one of its most value in the work of legislation is entrusted to a Council able as etc. They about in teak, change mought into existence in 1833. An assembly blackwood, and other valuable trees. Blee mown as the Sti Mulam Popular Axembly forms the staple of cultivation. Coccanuts are needs once a year, when its mobers are able to largely rated in the sandy tracts, and their ring suggestions before the Dewan. The products form the chief exports of the State. State supports a military force of 1,471 men, Communications by road and backwaters are Education less advanced considerable in record and the State couns a haze of reliawy from Education has advanced considerably in recent good, and the State owns a hac of reliway from

Shoranore to Ernakulam, the capital of the State, a long period of mismanagement cuding in the of 25 officers and 251 men

Political Agent : H. L. Braidwood.

Pudukottai.—This State is bounded on the Khaja Akbar Hussain, north and west by Trichinopoly, on the south by Madura and on the cast by Tanjore. In early times a part of the State belonged to the Chola Kings and the southern part to the Pandya Kings of Madura. Relations with the English began during the Carnatic wars. During the elege of Trichinopoly by the French in 1752, the Tondiman of the time did good service to the Company's cause by sending them provisions, although his own country was on at teast one occasion ravaged as a consequence of his fidelity to the English. In 1756 he eent some of his troops to assist Muhammad Yusuf, the Company's sepoy commandant, in settling the Madura and Tinnerelly countries. Subsequently he was of much service in the wars with Haldar All. His services were rewarded by a grant of territory subject to the conditions that the district should not be allenated (1806). Apart from that there is no treaty or arrangement with the Raja. The present ruler is Sri Brihadamba Das, Sir Marthanda Bhairava Tondiman Bahadur, G.O.I.E., who is eighth in descent from the founder of the family. He succeeded in 1886. The Collector of Trichinopoly is ex-officio Political Agent for Pudukottal. The administration of the State, under the Raja, is entrusted to a State Council of three members, a Superintendent (Mr. Sidney Burn, 1.0.8.)
Dewan, and Councillor. The various departments are constituted on the British India model. The principal food crop is rice. The model. The principal room crop is like forests, which cover about one-seventh of the State, contain only small timber. There are no large industries. The State is well provided with roads, but Pudukottai is the only municipal Political Agent: E. S. Lloyd.

Banganapalle.—This is a small State in two Banganapane.—Ind is a sman outer in two detacled portions which in the eighteenth century passed from Hyderabad to Mysore and back again to Hyderabad. The control over it was ceded to the Madras Government by the Nizam in 1800, and subsequently passed through

and a Forest Steam Tramway used in develop- removal of the Nawab Patch Ali Khan in 1903. ing the forests. The State supports a force The present ruler is Nawab Sayid Chulam Ali : Khan, Bahadur, who administers the State with the assistance of the Dewan, Khan Bahadut The chief food grain's grown are rice, wheat and cholam. Roads have recently been constructed and the capital Banganapalle, is being gradually opened up with broad thoroughfares. The Nawab pays no tribute and maintains no military force, Sericulture, Inc cultivation, and weaving industries have lately been started in the State under the management of Mr. M. H. P. Ghatalch, the Superintendent of Industries. who is also the Private Secretary to the Nanth

Political Agent: H. G. Stokes, C.S.I., 1.0.S.

Sandur.—This is a small State almost surrounded by the District of Ballary the Col- lector of which is the Political Agent. Its caris lector of which is the Political Agent. history dates from 1728 when it was first seized by an ancestor of the present Itaja, a Maraths named Sidhoji Itao. It subsequently became a vas-al to the Peshwa, after whose downfall a formal title for the State was granted by the Madras Government to the Siva Rao. The Madra, Government to one Siva Itao. The Present ruler is H. H. Raja Srimant Venkata Itao, Rao Saleb Ghorpade, Mamulkat Madar, Senapathi, who was born in 1892. The State is administered by the Raja and the Dewan (M. R. R. A. Subraya Modilar Avergal). The Raia nava na thing and majaraha na military Itaja pays no tribute and maintains no military force. The most important staple crop is cholam. Teak and sandal wood are found in small quantities in the forests.

The minerals of the State possess unusual interest. The hematites found in it are probably the richest ore in India. An outcrop near the southern boundary forms the crest of a ridge 150 feet in highest tribuse areas for the control of the control ridge 150 feet in height, which apparently consists entirely of pure steel grey crystalline hema-tite (specular iron) of intenso hardness. Some of the softer ores used to be smelted, but the industry has been killed by the cheaper English iron. Manganese deposits have also been found in three places, and during 1911 to 1914 over 2,23,000 tons of manganese ore were transported

by one company.

Political Agent : J. M. Turing, L.c.s.

UNDER THE GOVERNMENT OF BOMBAY.

More than a half of the total number of the India is there a greater variety of principality various units counted as Native States ities. The bulk of them are of modern origin. very various units counted as Native States in India are under the Government of Bombay. the majority having been founded by Marathaties; the peninsula of Kathiawar alone contains nearly two hundred separate States. The recognition of these innumerable jurisdictions is due to the effective forms. tions is due to the circumstance that the early Bombay administrators were induced to treat the de Jaco exercise of civil and criminal jurisdiction by a laudbolder as carrying with it a diction by a laudbolder as carrying with it a quasi-sovereign status. As the rule of succession by primogeniture applies only to the larger principalities, the minor states are consistencing disintegration. In Bombay, where the traces of disintegration and disorder positions and dutiest vary greatly. In come of the more important States their function are confined to the giving of advice and the

The characteristic feature of the Bombay in the general scramble for power in the middle states is the great number of petty principalities: the neglecula of Festiva principalities is the general scramble for power in the middle states in the general scramble for power in the middle states. in the general scramble for power in the middle of the eighteenth century, but several Rajout houses date from earlier times. Interesting traces of ancient history are to be found at Sachin, Janjira and Jafarabad, where clieft of a foreign ancestry, descended from Abyssinian admirals of the Deccan Geets, still remain. A few aboriginal chiefs, Bhils or Kolls, exercise an enfeebled authority in the Dangs and the hilly country that frinces the Vapil and the

left by the eighteenth century. In no part of are confined to the giving of advice and the

exercise of a general susseillance; in other [Chief of Joth who belongs to the Maratha caste, rates they are intented with an actual share less I maty Chief and ranks as a first class Banlar, In the administration; while States whose rulers are minors—and the number of these is always large—are directly managed by flowemment officers. Some of the States are sub-ordinate to other States, and not in direct relations with the firstleh floverment; in there eases the status of the lendatories is usually guaranteed by Government, The powers of the chiefe are regulated by fresty or ribtom, and range dominants to a more right to collect revenue in a chare of a village, without eximinal or civil jurisdiction, as in the thre of the jetty chiefs of Kathlawar.

The Native States in the Bombay Presidency and Sauve states in the homoay Presidency number 277. Area 65,761 square miles. Population (1911) 7,411,675. They are divided for administrative purposes into the following agencies:—Nijapur Agency, 2 states; Cutch Agency, 1 state; Dharwar Agency, 1 state (Savanur); Kaira Agency, 1 state (Cambay); Kathawar Agency, 167 states (principal states, Bharwagar, Dhrangadhra, Gondal, Junagadh, Nawanagar); West Khandesh Agency 200 Bhaynagar, Dhrangadhm, Gondal, Junagadh, Nawanagar); West Khandesh Agency, 20 states; Kolaba Agency, 1 state (Janjira); Kolhapur Agency, 9 states (principal state; Kolhapur Agency, 6 states (principal state; Kolhapur, with 9 fendatory states); Mah Kantha Agency, 6 states (principal state, Idar); Nasil: Agency, 1 state (Gurgona); Palanpur Agency, 17 states (principal state, Palanpur); Poona Agency, 1 state (Bhor); Rera Kantha Agency, 62 states (principal State, Rajpipla); Ratara Agency, 2 states; Savantvadi Agency, 1 state; Sholapur Agency, 1 state; Eukkur Agency, 1 state (Khairpur); Surat Agency, 17 states; Thana Agency, 1 state (Janhar). The table below gives details of the (Januar). The table below gives details of the area, etc., of the more important States :--

State.	Area in eq. miles	Popula-	Approx. Revenue in lakhs of rupees.
Rihavnagar Cutch Dinangadhra Gondal Idar Jumgadh Khairpur Kolkapur Navanagar Palanpur Rajpipla	3,284 0,050 3,105 3,701 1,750	441,367 613,429 70,142 161,016 202,811 434,222 223,788 833,441 319,400 226,250 101,688	47 25 12 15 6 26 15 57 22 5

Bliapur Agency.—This comprises the Satara Jahagir of Jat (980.8 square miles in area). The small Estate of Daflapur with an area of 90.8 square miles lapsed to the Jath Jahagir on the demise of its last ruler Rani Bal Salieb Dafle in January 1917. On the annex-ation of Satara, in 1840, Jath and Daffapur like other Satara Jahagirs, became foundatories of the British Government. The latter has more than once interfered to adjust the pecu-niary affairs of the Jath Jahagir and in consequence of numerous acts of oppression on the

He holds a sanad of adoption, and the succession fellows the rule primogeniture. The gross revenue of the Agency is about 3 lakin chiefly derived from land revenue. The Jath State pays to the British Hovernment Rs. 6,400 per annum in theu of horse contingent and Its, 4,500 on account of Sardeshmukh rights.

Political Agent.-Jahangir Kaikhoaru Navorii Kabraji, Collector of Bijapur,

Cutch.-The State is bounded on the north and north-wert by Sind, on the east by the Palanpur Agency, on the fouth by the Peninsula of Kathlawar and the Gulf of Cutch and the south-west by the Indian Ocean. Its area, exclusive of the great calt march called the Itam of Cutch, is 7,616 equate miles. The capital is Blui, where the ruling Chief (the Malamo His Highness Maha Rao Sri Khengaji Sayal Bahadur, O.O.S.L., O.O.L.E., resides. From its isolated position, the special character of its people, their peculiar dialect, and their strong feeling of personal loyalty to their ruler, the peninsula of Cutch has more of the elements of a distinct nationality than any other of the dependencies of Bombay. The carillest historic notices of the State occur in the Greek writers. Its modern history dates from its conquest by the Sind tribe of Samma Rajputs in the fourteenth century. The section of the Sanimas forming the ruling family in Cutch were known as the Jadejasor children of Jade. The British made a treaty with the State in 1815. There is a fair proportion of good arable soil in Cutch: and wheat, barley and cotton are cultivated. Both Iron and coal are found but are not worked. Cutch is noted for its beautiful embroidery and sliverwork and its manufactures of silk and cotton are of some importance. Trade is The ruling chief is the chiefly carried by sea. supreme authority. A few of the Bhayads are invested with Jurisdictional powers in varying degrees in their own Estates and over their own rrots. A notable fact in connection with the administration of the Cutch State is the number and position of the Bhayad. These are Rajput nobles forming the brotherhood of the Rao. They were granted a share in the territories of They were granted a salar in the formal so the ruling chief as provision for their maintenance and are bound to furnish troops on an emergency. The number of these chiefs is 187, and the total number of the Jadeja tribe in Cutch is about 10,000. The British military force having been withdrawn from Bhuj, the State now pays Rs. 82,257 annually as an Anjar equivalent to the British Government. equivalent consists Tho military force 10 1,000 in addition to which, there are some irregular infantry, and the Bhayads could furnish on requisition a mixed force of four thousand.

Political Agent : Lt.-Col. O. F. Harold.

Dharwar Agency—This comprises only the small State of Savanur. The founder of the reigning family who are Mahomedans of Pathan origin was a jagirdar of Emperor Aurangzebe. At the close of the last Maratha War the Nawab part of the then ruler was compelled to assume of Savanur whose conduct had been excep-direct management from 1874 to 1885. The tionally loyal was confirmed in his possessions



and the house of Wankaner claims to be descended from an elder branch of the same race.

town, 75 miles west of Ahmedabad.
Gondal State.—The Chief of Gondal is a Rajput of the Jadeja stock with the title of IL H. Shri Bhagyat Sinhiji, G.O.I.E. The early founder of the State, Kumbhoji II., had a modest estate of 20 villages. Kumbhoji II., the most powerful of the Gulf of Cutch, has an area of 3,791 square of 20 villages. Kumbhoji II., the most powerful miles. The Jam of Navanagar is a Jadeja Chief of the House, widened the territories to almost their present limits by conquest; but it was left to the present ruler to develop its resources to the utmost, and in the words of Lord Reay, Governor of Bombay, by its "importance and advanced administration" to get it recognised as a First Class State. The State founded in 1540. The present Jam Sahib is pays a tribute of Rs. 1,10,721. The chief protite well-known cricketer, H. H. Jam Sahib ducts are cotton and grain and the chief manuschild should be succeeded in 1872 and succeeded in 1872 an factures are cotton and woollen fabrics and gold embroidery. Gondal has always been pre-eminent amongst the States of its class for the vigour with which public works have been prosecuted, and was one of the earliest ploneers of rallway enterprise in Kathlawar, having initiated the Dhasa-Dhoraji line: it subsequently bulls other lines in partnership with other Native States in Kathiawar. There are no export and import dues, the people being free from taxes and dues. The Capital is Gondal, a fortified town on the line between Rajkot and Jetalsar.

Junagadh State.-This State has an area of 3,284 square miles and an average revenue of about 48 lakin and is bounded on the north by the Bardas and Halar and on the west and south by the Ambian Sea. The river Saraswati, famous in the sacred annals of the Hindus, passes through the State. A sparsely wooded tract called the Gir, is contained in the State and is well known as the last haunt in India of the lion. Until 1472, when it was conquered by Sultan Mahmud Begra of Ahmedabad, Junagadlı was a Rajput State, ruled by Chicks of the Chudasama tribe. During Marathas. The British on succeeding the the reign of the Emperor Akbar it became a dependency of Delhi, under the immediate dependency of Delhi, under the immediate from the tribute of the Mughal Viceroy of Gujarat. About 1735, when the representative of the Mughals had lost his authority in Gujarat. Sher Rian Babi, a soldier of fortune, expelled the Mughal Governor, and established his no tribute. Till 1868 the State enjoyed from the Mughal Governor, and established his no tribute. Till 1868 the State enjoyed from the Mughal Governor, and established his particular to the Mughal Governor and t

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great antiquity, and is said to have entered into engagements with the British Government Kathlawar from the north, establishing itself in 1807. The Chief bears the title of Nawab. Rathlawar from the north, establishing itself in 1807. The Chief bears the title of Nawab, first at Patri in the Ahmedabad District, thence the present Nawab being tenth in succession moving to Halvad and finally settling in its present seat. The greater part of this territory was probably annexed at one time by the and succeeded in 1911. The agricultural Mahomedan rulers of Gujarat. Subsequently, products are cotton, shipped in considerable during the reign of the Emperor Aurangaebe quantities from Yenval to Bombay, wheat (1658-1707), the sub-division of Halvad, then paled Muhammadnagar, was restored to the piled with fair weather harbours. The State Jhala family. The petty States of Limbdl, pays a tribute of Rs. 65,604 to the Gackwar Wadhwan, Chuda, Sayla, and Than-Lakhtar of Baroda and the British Government, but in Kathlawar are offshoots from Dhrangadhra; the Nawab receives contributions, called zorand the house of Wankaner claims to be destable, amounting to Rs. 92,421 from a number talbi, amounting to Rs. 92,421 from a number of chiefs in Kathiawar—a relic of the days of His Highness the Maharana Shri Sii Glianshyam-His Highness the Maharana Shri Sii Glianshyam-of the Jhala Rajput family. The State pays a ribute of Rs. 40,671 to the British Government, and Rs. 4,906 to Junagadh State. The admi-nistration is conducted under the Maharaja's directions by the Dowan (Mansinh S. Jinla). kot, or old citadel, contains interesting Bud-The principal crops are cotton and grain. dhist caves, and the whole of the ditch and The Capital town is Dhrangadhra, a fortified in eighbourhood is honeycombed with caves or their remains. There are a number of fine their remains. There are a number of fine modern buildings in the town,

Administrator, H. D. Rendall, L.C.S.

founded in 1540. The present Jam Sahib is the well-known cricketer, H. H. Jam Sahib Shri Ranjitsinliji Vibbsji, who was bern in 1872 and succeeded in 1907. The principal products are grain and cotton, shipped from the ports of the State. A small pearl ishery lies off the ceast. The State pays a tribute of Rs. 1,20,003 per annum jointly to the British Gavernment, the Reckwar of Brotal and the or its. 1,22,003 per annum jointy to the liftish Government, the Gackwar of Baroda and the Nawab of Junagadh. The State maintains a squadron of Imperial Service Lancers. The Capital is Navanagar (or Jamnagar) a flourishing place, nearly 4 miles in circuit, eltuated 5 miles east of the port of Bedl. Population 349,400. Revenue nearly its. 40 laklis.

Dewan, K. B. Merwanji Pestonji.

Kolaba Agency.—This Agency includes the State of Janjira in the Konkan, a country Agency includes covered with spurs and hill ranges and much intersected by creeks and backwaters. The ruling family is said to be descended from an Abyesinian in the service of one of the Nizani Shahl Kings of Ahmednagar at the end of the fifteenth century. The most noticeable point in its history is the successful resistance that it alone, of all the states of Western India, made against the determined attacks of the Marathas. The Briffsh on succeeding the Marathas as masters of the Konkan refrained from

Rupees of Revenue: but for many years this two groups of Mehwas. service has not been exacted and no military force is maintained at present. The second class States are Polo, to the rulership of which the succession is disputed, and Danta, of which the ruler is Maliarana Mamirsingli.

Political Agent-Lt.-Col. W. Beale.

Nasik Agency.—This consists of one State Surgana, lying in the north-west corner of the Nasik District. Surgana has an area of 360 square miles and a population of 15,180. The ruling chief is Pratapray Shankarrao Deshmukh, who is descended from a Maratha Pawar family. He rules the State subject to the orders of the Collector of Nasik, The revenue of the State is about Rs. 30,500.

Palanpur Agency.—This group of States in Gujarrs comprises two first class States. Palanpur and Radhanpur, and a few minor States and petty talukas. Its total area is states and petty talueas. Its total area is 6,303 square miles and the population is 515,002. The gross revenue is about 141 lakhs. The territory included in the Agency has, like the more central parts of Gujarat, passed during historical times under the sway of the different Rajput dynastics of Anhilyada, the carly Khilji and Tughlak Shahi dynastics of Delhi, the Almedahad Spilana. the Mughal Emparates the Ahmedabad Sultans, the Mughal Emper-ors, the Mahrattas, and lastly the British. The State from which the Agency takes its name is under the rule of II. H. Sir Sher Muhammad Khan, G.O.L.E., who is cutilled Nawab and Dewan of Palaupur. He is descended from the Lohanis, an Aighan tribe who appear-ed in Gujarat in the fourteenth century. The connection of the British Government with the State dates from 1810 in which year the chief was murdered by a body of nobles. Two high roads from Ahmedabad pass through the State and a considerable trade in cotton cloth, grain, sugar and rice is carried on. The State maintains a constabulary force of 600 and pays tribute of Rs. 38,000 to the Gaekwar of Baroda. The capital is Palanpur, situated at the imition of the Palaupur-Dessa Branch of the B. B. & C. I. Raliway. It is a very old settlement of which mention was made in the eighth century.

Political Agent-Lt.-Col. N. S. Coghill.

Radhanpur is a State, with an area of 1,150 square miles, which is held by a branch of the Babi family, who since the reign of Humaof the Babi family, who since the reign of Huma-yun have always been prominent in the annals of Gujarat. The present chief is II. H. Jalai-ud-dln Khanji, the Nawab of Radhanpur. No has powers to try lils own subjects even for capital offences without permission from the Political Agent. The State maintains a military force of 200. The principal products are exiten whest and only The central are cotton, wheat and grain. The capital is Radhanpur town, a considerable trade centre for Northern Gujarat and Cutch.

Rewa Kantha Agency.—This Agency, with an area of 4,050 square miles and a population of 665,009, comprises 61 States, of which Raj-pipla is a first class State, 5 are second class, one is third class and the rest are either petty States or talukas. Among those petty States are Sanjeli in the north. Bhadarva and Umeta in the west, Narukot in the couth-cast, and

The 20 Sankheda Mehwas petty estates lie on the right bank of the Narbada, while the 24 Pandu Mehwas petty estates including Dorka, Anglad and Raika, which together form the Dorka Mehwas are situated on the border of the Mahi.

The following are the statistics of area and population for the principal States:-

State,	Area in square miles.	Popu- lation.
Balasinor	189 813	40,503 115,350 103,639
Lunavada Narukot (Jambhughoda) Rajpipla	398 143 1,517	75,008 8,485 161,588
Sunth Other Jurisdictional States, Civil Stations and Thana Circles	394 639	59,350 100,126

Under the first Anhilvada dynasty (746-961), almost all the Rewa Kontha lands except Champaner were under the government of the Barlyas, that is, Koll and Bhil chiefs. In the cloventh, twelfth and thirteenth centuries chiefs of Rajput or part Rajput blood, driven south and east by the pressure of Muhammadan invasions, took the place of the Koli and Bhil leaders. The first of the present States to be established was the house of the Raja of Rajpipla.

Political Agent-W. W. Smart, I.C.S.

Raipipla,—This State lies to the south of the Narbada. It has an area of 1,517 square miles, and largely consists of the Raipipla Hills which form the watershed between the Narbada and Tapti rivers. The family of the Raja of Rajpipla, H. H. Maharana Shri Vijayasinjhi is sadi to derive its origin from a Rajput of the Goliel clan. The State pays an annual tribute of Rs. 50,000 to the Gaekwar of Baroda. Cotton is the most important crop in the State. In the south there are valuable teak forests. The capital is Nanded, which is connected with Anklesvar by railway built by the State.

Satara Jagirs .- Under this heading are grouped the following six States :-

State.	in (rea eq.	Popu- lation.	Revenue ln laklıs.
Aundh Phaltan Bhor Akalkot Jath Daphlapur		501 307 925 403 884 90	68,995 53,996 144,691 89,032 69,810 8,833	521549.90

Tribute is paid to the British Government of of the first Mahomedan invasion of the Best R. 9,151. There is also attached to this can, Jawhar was held by a Varil, not a Koll Agency a tract of country known as the Dangs, chief. The first Koll chief, obtained his footwhich has an area of 000 square miles and a ing in Jawhar by a device similar to that of population of 29,050 and a revenue of Dido, when she asked for and received as much

The boint revenue of these states is 164 lakha, and revenue of 21 lakha. Up to 1294, the period population of 29,323 and a reviewe of Dido, when she asked for and received as much les, 30,000. The country is divided into 14 Dangst land us the lifte of a built would cover. The restainment rule of a Bibli Chief with the title of Raja, Naik, Fradian or Powar.

Then Agency.—This includes the State administers the State, assisted by a Karbhari under the Konkan plain. It has an area of 3 dwiar, in the Thana District, on a plateau above the Konkan plain. It has an area of 3. M. Bharucha, who is Political Agent of the 316 square miles and a population of 53, 180 state.

UNDER THE GOVERNMENT OF BENGAL.

comprised Simost the whole of the Northern Bengal, Assam and Bhutan, is a low-lying plain in North Bental. It has an area of 1,207 square miles, a population of 5,92,052 and revenue of nearly 20 lakhs. The roling chieffs H. H. Maharnja litendra Narayan libup Bahadur who mar-ried Rani Indira Debi, eldest daughter of H. H. Maharaja Rao Gackwar of Baroda in 1913 and State differs alike from the large Native State Maharaja Rao Gackwar of Baroda in 1913 and state differs alike from those which are classed as succeeded his brother Maharaja Raj Rajandra of India, and from those which are classed as Namyan in the same year. His family is actributary. Besides being the ruler of Hill Namyan in the same year. Cither Dravidian Tippera, the Raja also holds a large landed core of both types, property called Claskia Rosinabad, situated property called Claskia Rosinabad, situa but according to others of Kahatriya origin. II. II. administers the State with the assistance of the State Council of which he is President. Cooch Behar once formed part of the famous kingdom of Kamrup. British connection with t began in 1772 when owing to inroads of the Blintens, the assistance of the East India Com-Dinters, the assistance of the Last India Company was invited. The chief products of the state are rice, jute and tobacco. It maintains a military force of 194. The capital is Cooch Behar, which is reached by the Cooch Behar state Railway, a branch from the Lastern Remai State Railway system.

Hill Tippern.—This State lies to the south of the district of Sylhet and consists largely of hills covered with bamboo jungles. It has an area of 4,086 square miles and a population of 529,513. The revenue from the State (about 10 lakis and from the Zemindari in British territory a slightly smaller sum. The

British territory a slightly smaller sum. The

Cooch Behar. - This State, which at one time present Raja is Birendra Kishore Deb Barman Manikya, who is a Kabatriya by caste and comes of the Lunar race. The military pressing of the Tippera Rajas dates back to the fifteenth century and a mythical account of the State takes the lilstory to an even earlier date. Both as regards its constitution and its relations with the British Government, the thali and Sylhet. This estate covers an area of 600 quare miles, and is held to form with the State an indivisible Raj. Disputes as to the right of succession have occurred on the occasion of almost every vacancy in the Raj, producing in times gone by disturbances and domestic wars, and exposing the inhabitants of the hills to serious disorders and attacks from the Kukis, who were always called in as auxiliaries by one or other of the contending parties. The principles which govern succession to the State have recently, however, been embodied in a sanad which was drawn up in 1904. The chief products of the State are rice and cotton, the traffic being earried chiefly by water. The administration is conducted by the Chief administration is conducted Dewan at Agartala, the Capital, assisted by two assistants.

Political Agent: J. Bartley, 1.C.S.

UNDER THE GOVERNMENT OF BIHAR AND ORISSA.

Under this Government there are the Chota Nagpur political States of Kharsawan and Scraikela, and the Orisea feudatory States, 24 in number. The total area is 28,648 square miles, and the total population 3,042,072. The revenue is about 70 lakhs. The inhabitants are hill-men of Kolarian or Dravidian origin, and their condition is still very primitive. The chief of Kharsawan belongs to a junior branch of the Pormhat Haja's family. The state first came under the notice of the British in 1793, when, in consequences of disturbances on the frontier of the old Jungle Mahals, the Thakur of Kharsawan and the Runwar of Saraikela were compelled to enter into certain agreements relating to the treatment of fugitive rebels. The chief is bound, when called upon, to render

"TITE THE Blookanal, Athmalik, racey of the optical states has remained been a manufal, Rightly, Khang thee. The States acknowledged the \$1200 ...

Daryalla and Hayd, ainto the pataroous process of the states there were noded in 1805 the follow on imply the states of the expectations. hourginal races, who were divided into lands to enter into treaty ensurements, nemble communal or tribal groups each under The States have feer, with refige forests on the other. In course of time their the north, come to Parl on a pilrrimage and roundined behind to found kingdoms and dysastics. It was thus that Jal Slogh became ruler of Mayurbhanl over 1,500 years ago, and was succeeded by his eldest son, while his scroud was succeeded by his eldest ron, while his ground son selved Keonjian. The chiefs of Baurl and Daspalla are said to be descended from the same stock; and a Rajput origin is also claimed by the Rajas of Athmalik, Narrinchepur, Pal Laham, Talcher and Tigith. Nayagarh, it is alleged, was founded by a Rajput from Rewah, and a selon of the same family was the appearant of the process house of Khani. was the ancestor of the present house of Klimpilpara. On the other hand, the chiefs of a few States, such as Atheath, Baramba and Dhenkanal, owo their origin to favourities or distinguished servants of the ruling covernigns of Orisea. The State of Ranpur to believed to be the most ancient, the list of its chiefs covcring a period of over 3,600 years. It is note, putes, and indicating the nature and extent worthy that this family is admittedly of Khond of the control of the Political Agent. origin, and furnishes the only known instance in which, amid many vicissitudes, the supre-

" States: Damia, Hairakhol, Senpur, Patna redistry less tern; but in other respects wither nd Kalahandi from the Central Provinces, the ability of fifter and their successful disappur and Bonal from the China Nappur the Northeles at 1 May drive, one interface lates. The total population in 1815 was with their interface, one for FPS,028 with a revenue of about 00 labra, in affective social cell for authentic blaves no conscient the contract their section of authentic bistory. Comprising the root part of first and for interface with a province of rises they were never brought under the lain very far father affects the analysis, lines consisted of numerous petry principal differences of the Tribution of the root part of the province of the Tribution of the root part of the third first the which were not or less independent of followed by the arbitation of the of the Tribution of the root part of the tribution of the of the Tribution of the first beginning at a first part of the tribution of the first first the first part of the tribution of the first first the first first the first first first the first id Kalalandi from the Central Provinces, the anticest there at father and their supercreets, me another. They were first inhibited by lary Plates the electr of mith myse the first

nemote commands of cross properties of the state of the s rest of fire at but, he they had always from tributary states eather than securer destricts of lorests on the other. In course of time their tributary states restore regime a unitarity that were penetrated by Aryan ade the native governments they are exempted the native governments they are exempted their and established themselves in their form the operation of the governments resulted from the operation of the government of the principle of the north come to Part on a pilorimage and in the nature of Rights relations with the north come to Part on a pilorimage and projet toes that would fre hate their be'pe directed under the ordinary installation of the British courts, if that should ever be found advisable. In 1882 it was held that the Stares did not form part of Brittin India and this was afterwards accepted by the Secretary of State.

The staple crop in their States is rice. The Are staple crop in their States in 110s. Are forests in them were at our time among the best timber producing tracts in India, but until lately forest conservancy was practically unknown. The States have formed the sale last of forests of the States have formed the sale ject of frequent legislation of a special character. The relations with the Builth Government are governed mainly by the same's granted in similar terms to all the chiefs in 3-21. They contain ten clauses reciling the rights, gulyinges, daties and obligations of the chiefs, publication for the chiefs. providing for the rettlement of Loundary dis-

Political Agent: L. E. B. Calden-Ramser. C.f.C., t C S.

UNDER THE GOVERNMENT OF THE UNITED PROVINCES.

Three States: Rampur, Tehrl and Benares are included under this Government:-

State.	Area Sq. Miles.	Popu-	Revenue in lakh».
Rampur Tehri (Garliwal) Benares	602 4,200 988	531,808 200,853	45 6

Rampur is a fertile level tract of country.

Syed Mohammed Hamid Ali Khan Bahadur Mustaid Jang, GCLL, GCNO., A.D.C., to His Imperial Majesty the King Emjeror, Born Stat Lugari 1500. 21st August 1675, descended from the famous Sadats of Bahera. Succeeded in February 1889. His Highness is the sole surviving representative of the once great Robilla rower in India. He is the Premier Chief in the United Provinces, and rules over a territory of 602 equare miles with a population of 531,217. His Highness is an en-. .

:ducated in Arabic. Hampur is a fertile level tract of country.

The ruler Colonel His Highness Alight FarzandiI-Dilpizir-i-Daulet-i-Inglishs, Mukhlie-ud-Daulah, Nast-ul Muk, Amir-ul-Umara, Kawab Sir
Rampur displayed his unswerving loyalty to the British Government by affording p-cunjary aid, protecting the lives of Europeans, and rendering 8,000 feet above the sea level.

Rendred by the Euramount power. This State contributes towards the defence of the Europeans and the defence of the Europeans and the defence of the Europeans. The founder of the ruling family of Benarcs was one Mansa Ram, who entered the Indian Empire by maintaining a well-equipped and well trained testalion of Importal service infantry and a cavalry unit consisting of two equadrons,

The Imperial Service Infantry has served at the Front and a detachment of Importal Service Lancers is training Government horses at the Remount Depot, Aurangaliad.

His Highness has 3 sons, the eldest Sahibzada Syed Raza All Khan Bahadur being the heir apparent.

The State has as Income of over £300,000 (three hundred thousand pounds) a year,

Tehri State (or Tehri Garhwal).-This State lies entirely in the Himalayas and contains a tangled series of ridges and spurs radiating from a lofty series of peaks on the burder of Tibet. The courses of the Ganges and the Jumna are in it. The early history of the State is that of Garhwal District, the two tracts having formerly been ruled by the two tracts naving formerly been raised by and same dynasty. Parduman Shah, the last Raja of the whole territory, was Ellied in battle, fighting against the Gurkhas; but at the close of the Nepaleso War in 1815, his son received from the Rivilell, the present State of Tehrl. During the Mutiny the latter rendered valuable assistance to Government. He died in 1859 without issue, and was succeeded by his near relative Bhawani Shah; and he subsequently received a sanad giving him the right of adoption. The present Raja Lt. H. H. Narendra Shah Bahadur is a minor and is being educated at the Mayo College. The principal product is rice, grown on terraces on the bill sides. The State forests are very valuable and there is con-siderable export of timber. The Itaja has full powers within the State. A unit of Imperial Service Sappers is maintained. The capital is State in 1880.

of Bringes was one Mansa Ram, who entered the service of the Governor of Benares under the Nawab of Oudh in the early eighteenth century. His son, Balvant Singh, conquered the neighbouring countries and created a big state out of them over which he ruled till 1770. Raja Chet Singh succeeded him, but was ex-pelled by Warren Hastings in 1781. In 1701, owing to the maladministration of the estates which had accumulated under the Raja of Benarcs, an agreement was concluded by which the lands held by the Raja in his own right were reparated from the rest of the province, of which he was simply administrator. The direct control of the latter was assumed by the Government, and an annual income of one lakh of rupees was assured to the Raja, while the former constituted the Domains. Within the Domains the Raja had revenue powers similar to these of a Collector in a British District, which were delegated to certain of his own officials. There was thus constituted what for over a century was known as the Family Domains of the Maharaja of Benarcs. On the 1st of April 1911 these Domains became a State consisting of the parganas of Bhadohi (or Konrh) and Chakla (or Kera Mangraur) with the fort of Ramnagar. The Maliaraja's powers are those of a ruling chief, subject to certain conditions, of which the most important are the maintenance of all rights acquired under laws in force prior to the transfer, the reservation to Government of the control of the postal and telegraph systems, of plenary criminal jurisdiction within the State over servants of the British Government and European British subjects, and of a right of control in certain matters connected with excise. The present ruler is H. H. Maharaja Sir Prabhu Narayan Singh Baladur, G.O.I.I., who was born in 1855 and succeeded to the

UNDER THE GOVERNMENT OF THE PUNJAB.

Under this Government there are 34 states, t varying considerably in size and importance. lation, a Area, 30,502 square miles. Population (1011), states:—4,212,704. Revenue, about £1,000,000.

The Punjab states may be grouped under three main classes. The hill States, 23 in number, lie among the Punjab Himalayas and are held by some of the most ancient Rajput are need by some of the most ancient Rajput families in all India. Along the western half of the Southern border lies the Muhammadan state of Bahawalpur. The remaining States, including the Sikh principalities of Patiala, Jind, Nabha, Kapurthala, Faridkot and Kalsia, and the Muhammadan chiefships of Maler Kotis, Pataudi, Loharu and Dujana, ile cast of Labore, and, with insignificant exceptions, occurry the center of the castern policy of the occupy the centre of the eastern plains of the province.

The list below gives details of the area, population, and revenue of the more important

Name.	Area square miles.	Popula-	Revenue Approx. In lakhs
Bahawalpur	15,000	780,394	27
Chamba	3,216	134,851	7
Farldkot	642	130,374	8
Jind	1,250	271,728	15
Kapurthala	030	208,244	25
Maler Kotla	167	71,144	141
Mandi	1,200	181,110	5
Nabha	928	248,892	15
Patlala	5,412	1,407,050	72
Sirmur (Naban)	1,108	138,504	8

assumed independence during the dismberment of the Durrani empire. On the resting temples, of which that of Lakshul e of Ranjit Singh, the Nawab made several Narayan, dating possibly from the tenth concurrence of the Durtish Government for the Sidney of this sandy level truck of land belongs to the Sidney. 03, whereby Eanjit Singh was confined to e right bank of the Sutlel, in reality effected sobject. The first treaty with Bahawalpur is negotiated in 1833, the year after the treaty ith Ranjit Singh for regulating traffic on the dus. It secured the independence of the awab within his own territories, and opened) the tradic on the Indus and Sutlej. During ie first Afghan War the Nawab rendered as-tance to the British and was rewarded by grant of territory and life pension. On his ath the succession was disputed and for a me the State was in the hands of the British. me the State was in the minds of the British he present Nawab is H. H. Nawab Sadiq adammend Khan, who was born in 1994 and receded in 1997. During his minority the late is managed by a Conneil of Regency. The def crops are wheat, rice and millet. The abore-Kameli branch of the North-Western tate Rallway passes through the State. he State supports an Imperial Service Silladar amel Transport Corps consisting of 355 men nd 1,144 camels, in addition to other troops. he capital is Bahawalpur, a walled town pullt in 1745.

Political Agent: W. C. Renoul, Leve.

Chamba.-This State is enclosed on the vest and north by Kashmir, on the east and outh by the British districts of Kaugra and durdapput, and it is shat in on almost every ide by lofty hill ranges. The whole country a mountainous and is a favourite resort of portsmen. It possesses a remerkable series if copper plate inscriptions from which its chronicles have been completed.

Founded probably in the fixth century by Marut, a Surafbansi Rafput, who built Brahma-Jura, the modern Barmanr, Chamba was exfunds by Meru Yarma (6-0) and the town of Chamba built by Sahil Varma sbout 920. The State maintained its independence, until the Meghal conquest of India.

Under the Morbals it became tributary to the empire, but its internal administration was not interfered with, and it escaped almost unscathed from Sikh argression. The State first came under British influence in 1845. The part, west of the Rayl, was at first handed over to Kashmir, but subsequently the boundaries of the State was a first landed. daries of the State were fixed as they now rand, and it was declared independent of Happirthalas—This State consists of three Kashmir. The Present chief is H. H. Raja detached pieces of territory in the great plain in 1892, and succeeded in 1904. The principal Rapurthala at one time held possessions both crops are rice, make and milicits. There are in the Cis and Trans-Sutlej and also in the Bad

Buhawulpur.—This State, which is about some valuable forests which were partly leased 3 miles in length and about 40 miles wide, to Government in 1854 for a term of 92 years, divided lengthwise into three great stripe, but the management of them has now been these, the first is a part of the Great Indian retroceded to the Chamba Durbar. The sert; the central tract is chiefly desert, not mountain ranges are rich in minerals which able of cultivation, identical with the Bar are little worked. The principal road to Chamba Pat uplands of the Western Punjab; and town is from Pathankot, the terminus of third, a fertile alluvial tract in the river the Amritsar Pathankot branch of the Northbers, is called the Sind. The ruling family Western Ruliway. The Raja is head of the land of the didleid department and is assisted by the has descent from the Abbaside Khallfas of Judicial department and is assisted by the JPt. The tribe originally came from Sind, Warir-j-Wazarats, Chamba town, on the right bank of the Ravi, contains a number of inte-

sandy level tract of land belongs to the Sidhu-Barar clan of the Jats, and is descended from the same stock as the Phulkian houses. Their occupation of Faridkot and Kot Kapura dates from the time of Akbar, though quarrels with the surrounding Sikh States and internal dis-sen-ions have greatly reduced the patrimony. The present chief, II. H. Raja Brij Indar Singh Bahadur, was born in 1896, and succeeded

in 1905. During his minority the adminis-tration is carried on by a council under the presidency of an Extra Assistant Commissioner. The State supports one company of Imperial

Service Sappers.

Jind.—The three Native States of Jind, Patiala and Nabha form collectively the Phulkian States, the most important of the Cis-Sutled States. This area is the ancestral pes-ession of the Phulkhlan bouses. It lies mainly in the great natural tract called the Jangal (descrit or forest), but stretches north-east into that known as the Pawadh and southwards across the Ghazzar into the Nardak, while its southernmost tract, round the aucient town of Jind, claims to lie within the sacred limits of Kurukshetra. This vast tract is not, however, the exclusive property of the States; for in it lie several islands of British territory, and the State of Maler Kotla enters the centre of its northern besides. On the other hand, of its northern border. On the other hand, the States hold many outlying villages sur-tounded by British territory.

The history of Jind as a separate State dates Are mistory of Jind as a separate state as-from 1765 when the confederated Sikhs cap-tured Sirhind town and partitioned the whole Jind Province. The Maharaja of Jind, H. H. Maharaja Sir Ranbir Sinch, G.C.I.r. E.C.S.L. was born in 1870 and succeeded in 1887. He is descended from the ancestors of the Phulkian family. During the Sikh War and the Mutiny the Raja of Jind was of great service to the British and was rewarded with a grant of nearly 600 square miles of land. The principal crops are wheat, barley and gram. The only industries of importance are the manufactures of gold and eliver omaments, leather and woodwers and cotton cloth and cotten cloth. The capital is Sangrur which is connected by a State Rallway with the North-Western Railway. Under His Highness Court there is a Council Wizarat which contrals all the departments of the State.

Doab. In the latter lies the village of Ahlu; services during the war, whence the family springs, and from which it takes the name of Ahluwalla. Some of these estates were confiscated after the first 81kh War and when the Juliandur Deab came under the dominion of the British Government in 1840, the estates north of the Sullej were maintained in the independent possession of the Ahluwalia chieftain, conditional on his paying a commutation in cash for the service engagements by which he had previously been bound to Ranjit Singh. The Bari Poab es-tates have been released to the head of the house in perpetuity, the civil and police jurisdiction remaining in the hands of the British authorities. For good services during the Mutiny, the Raja was rewarded with a grant of other States in Oudh in which, however, he exercises no ruling powers, though in Oudh he is, to mark his superiority, addressed as Raja-Rajagan. The present chief is H. H. Maharaja Sir Jagatit Singh Bahadur, 6.08.1., who was born in 1872 and succeeded in 1877. Ho was granted the title of Maharaja as an hereditary distinction in 1911. The chiefs of Kapur-thala are Sikhs. Sardar Jassa Singh was En'm always known as Jassa Rainl; but the family claim descent from Rana Kapur, a semi-mythical member of the Rajnut house of Jalsalmer, who is said to have left lits home and founded Kapurthala 900 years ago. Only a small proportion of the population however are Sikhs, the majority being Mahomedans. The chief crops are wheat, gram, maize, cotton and sugar-cane. The town of Sultanpur in this State is famous for hand-painted cloths. The main line of the North-Western Railway passes through part of the State and the Grand Trunk Road runs parallel to it. A branch railway from Juliandur City to Forozopur passes through the State. Kapuriliala maintains a battalion of Imperial Service infantry and a small force of local troops. The capital is Kapurthala, which is said to have been founded in the eleventh century.

Agent to the Lieutenant-Governor for Kapurthe Commissioner of the Jullunder thala, Division.

Maler Kotin.—This State consists of a level sandy plain bounded by the district of Ludinana on the north and by Patiala territory elsewhere. The Nawabs of Maler Kolin are of Afglian descent, and originally held posi-tions of trust in the Sirhind province under the Moglial Emperors. As the Empire sank into decay during the eighteenth century, the local chiefs gradually became independent. The result was constant fends with the adjacent Sikh States. After the victory of Laswart, gained by the British over Sindhia in 1803 and the subjugation and flight of Holkar in 1805, when the Nawab of Maler Kolla joined the British army, the British Government succeeded to the power of the Marathas in the districts between the Sutle) and the Jumna. The final treaty which affirmed the dependence of the State on the British Government was signed after the submission of Itanjil Singh in 1809. The present Nawab is II. H. Nawab in 1809. The present Nawab is H. H. Nawab Ahmud All Khan Bahadur, K.C.S.I., who was born in 1881 and succeeded in 1998. He was created Hon, Major in the Indian Army for his

The chief products are cofton, sugar and option. The State supports two double companies of Imperial Service Sappers. The capital is Maler Kotla. Rovenue 14) lakhs.

Mandl.—This is a mountainous State in the upper reaches of the Beas. It has a history of considerable length, as it once formed part, of the Suket State. Its relations with the British were determined after the battle of Sobraon in 1816. The present minor chief H. H. Raja Jogindra Sen was installed in 1913, The administration is carried on by Mr. J. R. S. Ano autumstration is carried on by Mr. J. R. S. Parsons, 1.C.S., the Superintendent, and Mahta Gauda Mai, Assistant Superintendent. The principal crops are rice, maize, wheat and millet, About three-lifths of the State are occupied by forest and grazing lands. It is rich in minerals, The capital is Mandi, founded in 1527, while contains soveral temples and other buildings of intervit and is over of the allef nexts force. interest and is one of the chief marts for commerce with Ladakh and Yarkhand.

Nabha.—Nabha which became a separate State in 1703 is one of the 3 Phulkian States -Nabla, Patiala and Jind and though second in point of population and revenue of the 3 sister States, it claims seniority being descended from the eldest branch. It consists of two distinct parts, the main portion comprising 12 separate pieces of territory scattered among the other Punjah States and Districts, forms the City of Natha and the Nzamats of Phul and Amion; the second portion forms the Nizamat of Bawal in the extreme south-cast of the Punjab on the border of Rajputana; this Nizamat of Bawal was subsequently added to its territory as a reward from the British Government for the loyalty of the Rulers of Nabha. The State now covers an area of about 1,000 square miles and has a population of about 2 lakhs. The present Ruler is Shri Maharaja Ripudaman Singhii Mahayendra Bahadur, who was born in 1883 and succeeded his father in 1911. The administration of the State is carried on by His Highness the Maharaja assisted by a Council of Ministers. The High Court is the head of the Judicial Department. The State supports one battallen of Imperial service Infantry consisting of 600 men; be-sides this there are local forces of Infantry, cavalry and artillery, etc., consisting of about 1,000 men all told and also a Transport Corps. For the preservation of the peace there is a Pellee force consisting of about 600 men,

The State is traversed by the main and 3 branch lines of the K. W. Railway and the Rajpulana Malua Rallway crosses the Nicamal of Bawal. A large portion of the State is irrigated by the Shilind Canal. The crops of the State are gram, pulses, balra, sugarcane, cotton, wheat and barley; to facilitate trade the Darbar has opened grain markets and Banks near the principal railway stations within the State territory; The chief industries of the State consists of the manufacture of silver and gold ornaments, brass utensits, and cotton earliet, lace and gota, etc. There are some glimling factories and a cotton steam press in the State which are working successfully. The State has so far contributed roughly about 30 lables of rupees to the various funds in connection

Patialn.—It is the largest of the Phul-klan States, but its territory is scattered and interspersed by small estates and even single villages belonging to other villages and British districts. It also comprises a portion of the Simla hills and territory on the border of Jaipur and Alwar States. Area 5,051 square miles. Population 1,407,050. Its history as a separate State begins in 1762. During the Sikh War and the Multin, the Maharaja was loyal and was substantially rewarded; The present Chief H. H. Lieut. Colonel Maharajadhiraja Eri Sir Bhupindar Singh Mahindar Bahadur, C.C.I.E., was born in 1801 and succeeded in 1900. During his minority his administrative functions were exercised by a council of regency consisting of three members. The principal crops are gram, barely and wheat. Cotton and tobacco are also grown in parts of the State. part of the State is irrigated by the Sirbind and Western Jumna Canal distributaries. It possesses valuable forests. The State is rich in antiquities especially at Pinjaur, Sunam antiquities especially at Pinjaur, Sunam and Sirhind. The North-Western Railway, the E. I. Railway, and a branch of the B. B. & C. I. Railway traverse the State. It contains an Imperial Service contingent, of a regiment of cavalry and two battalions of infantry.

In 1000 it was decided by the Government of India to appoint a Political Agent for Patiala, again gone on service.

with the War, including a fully equipped Hospital Ship for Mesopotamia, people of the State Nablas were included in the Agency, to which have subscribed about 7 lakhs to the Indian of Bahawalpur. The headquarters of the nau the other two Faustian States of Jind and Nabha were included in the Agency, to which was afterwards added the Mahomedan State of Bahawalpur. The headquarters of the Agency ore at Patiala. Gross heome, 90 lakhs. Sirmur (Nahan).—This is a hilly State in the Himalayas under the Political control of the Commissioner of Ambala Division. Its

history is said to date from the 11th century. In the eighteenth century the State was able to repulse the Gurkha invasion, but in 1703 the Gurkhas were invited to ald in the suppression of an internal revolt-in the State and they in turn had to be evicted by the British. In 1857 the Raja rendered valuable services to the British, and during the second Aighan War he sent a contingent to the North-West Frontier. The present Chief is H. H. Raja Amar Parkash Bahadur, R.C.S.t., who was born in 1888 and succeeded in 1911. The main agricultural feature of the State is the recent development of the Kiarda Dun, a fertile level plain which produces wheat, grain, rice, maize and other crops. The State forests are valuable and there is an iron foundry at Nahan which was started in 1807 but, being unable to compete with the imported iron, is now used for the manufacture of sugar-cane crushing mills. The State supports an Imperial Service Corps of Sappers and Miners which served in the Tirah Expedition of 1897 and has been serving in the war. It was captured with General Townshend's force at Kut-al-Amara but the Corps has since been re-constituted and has

UNDER THE GOVERNMENT OF BURMA.

Under this Government there are four Shan Under this Government there are four Shan States, two in the Mandalay Division (Ilkmatt Long and Mong Mit); and two in the Sagaing Division (Hsawghsup and Singkaling Hkmatt), the area of which is 7,874 square miles and the population about 07,051, consisting chiefly of Buddhists. There are in addition 48 petty States, 5 in the Northern Shan States, 43 in the Southern Shan States, with an arrange the Southern Shan States, with an area of 58,835 square miles and a population of 1,358,498 consisting of Buddhists and Animists.

The Shan States—though a portion of British India, do not form part of Burma proper and are not comprised in the regularly adand are not comprised in the regularly administered area of the Province. They lie in the north, South Hsenwi near the Salween for the most part to the east of Upper Burna, in the east, Manglon in the south-east, Hslpaw crament, but were administered by their own the south-west, and Tawappeng in the north-walls of Assahave and the Bultish Government. has continued to a certain extent the semi-

- States under the supervision of the Superintendent, Northern Shan States, whose headquarters are at Lashle; area 14,294 square miles and population 58,952.
- States under the supervision of the Superintendent and Political Officer, South-

There are five States in the Northern and \$5 the Southern Shan States. There are in addition two Shan States under the supervision of the Commissioner of the Mandalay Division, namely, Hkmati Long in the unad-ministered territory to the north of the My-itkylna District and Mong Mit lying north-east of the Ruby Mines District. In the north-west of the University of the Mysics of the University of the Univer west of the Upper Chindwin District towards Manipur there are two small Shan States, Heawnghoup and Singkaling Hkamti, whose administration is supervised by the Commissioner of the Sagaing Division.

has continued to a certain extent the semi-independence which it found existing in 1885. As at present defined, the Shan States are divided into—

1. States under the currentian of the control of the control of the control of the control of the current of the can hardly be said to be under British control. over the jurisdiction of justice and is vested with wide revisionary powers. In revenue matters the Sawbwas administer their States in accordance with local customs which have been but little modified. Of prime importance in the economy of the country is the Mandalay Lashlo rallway, 180 miles in length, of which 126 miles lie within the Northern Shan States. ern Shan States, whose head quarters are at Taunggy; area 40,484 square inites and population 900,202; 126 miles ile within the Northern Shan States. The line is a single track, and was constructed in the face of considerable engineering difficulties, of which not least the notable was States, with a total area of approximately the Goktelk gorge, now spanned by a viaduct. It had been proposed to continue the railway about 90 miles farther east to the Kunlong, where is a ferry over the Salween, and eventually to penetrate into Yannan; but this extension of nearly 40,000, and a gross revenue of about is for the present in abeyance.

revenue, civil and criminal jurisdiction therein.

There are in all 9 Sawbwas, 18 Myozas and allen population is largely supported by the 11 Ngwegunhmus.

4,200 square rolles and a population of about 64,000, lying on the frontier couth of the Shan States. The largest State is Kantarawadi with an area of 3,000 square miles, a population 11 lakhs of rupees. More than half of the inhabitants belong to the Red Karens, a people The most important of the Southern Shan States are Kengtung and Yawnghwe. Under the supervision of the Superintendent and Political Officer and his Assistants, the chiefs — known as Sawbwas, Myozas, and Ngwegunh—mus—control their own States, exercising country is teak timber, and the considerable and criminal jurisdiction therein. timber trade, which, however, has declined greatly in the last few years. The Karens Karenni.-This district consists of five themselves are distinguished as hunters.

UNDER THE GOVERNMENT OF ASSAM.

Commissioner of Assam is Manipur, which has lent to the State, three ordinary and three an area of 8,456 square miles and a population additional members who are all Manipuris. of 346,222, of which about 60 per cent. are Hindus, and 36 per cent. animistic forest tribes. Minipur consists of a great tract of hilly country and a valley, about 30 miles long 20 miles wide, which is shut in on overy side. The State adopted Hinduism in the early eighteenth century, when it came under a Naga. Raja who subsequently made several invasions into Burma. On the Burmese retailating, Manipur negotiated a treaty of alliance with the British, in 1762. The Burmese arsin with the British, in 1762. The Burmese again invaded Manipur during the first Burmese War and on the conclusion of peace, in 1820, Manipur was declared independent. The chief event in its subsequent history was the intervention of the British in 1891 to establish the claim of Kula Chandra Singh as Maharaja, Chilef Commissioner, Mr. Quinton and the officers with him and the withdrawal of the except which accompanied him. From 1801 to 1003 the State was administered by a Political Agent and Superintendent of the State during the minority of H. H. Raja Churn Chand Singh. The Raja was invested with rolling powers in 1903. The administration of the State is now conducted by the Durbar, consisting of the Itala as President, a vice-president, a member

The only State of Importance under the Chief of the Indian Civil Service whose services are The staple crop of the country is rice. Forests of great variety cover the whole of the hill ranges.

Khasi and Jaintia Hills.—These petty chiefships, 25 in number, with a total area of about 3,900 square miles and a population of 126,000, are included under the Government of Assam. Most of the States have treaties or engagements with the States lave treated or engagements with the British Government. The largest of them is Khyrim, the smaller is Nonglewal, which has a population of 100. Most of them are ruled by a chief or Slem. The Slemship usually remains in one family, but the succession was originally controlled by a small electoral body constituted from the by a small electoral body constituted from the heads of certain priestly clans. Of recent years there has been a tendency to broaden the elective basis, and the constitution of a Khael State has always been of a very democratic character, a Siem exercising but little control over his people. Among many of the north-cast frontier tithes there is little recurity of life and property, and the people are compelled to live in large villacts on the selected for their defensive capabilities. The selected for their defensive capabilities. The Khasis seem, however, to have been less dis-tracted by internal warfare, and the villages. as a rule, are small.

UNDER THE GOVERNMENT OF THE CENTRAL PROVINCES,

tory States subordinate to the administration, acknowledgments of fealty, but are notically with an area of 31,174 square miles and a populate free from direct interference rave in the care inition of 2,117,002. One of the States, Makrai, of sentences of death, which require the Chief inton of 2,117,072. One of the States, Makral, of rentences of death, which repure the Chirt instance are fituated in the Chhattiyanh Division. Commissioner's confirmation. But, as a first sain, to the different districts of which they amount of control owing mainly to the frewere formerly attached. Their relations with Government are controlled by a Political Agent, under direct management, because of civiler States vary greatly in size and importance, the minority of the milectifue of the civiler. Sakit the smallest, having an area of 136 square with the smallest, having an area of 136 square with the smallest of the first said that the first said of the civiler. foller and Bastar the largest an area of 19,002. The States pay a follote to Government square miles. They are administered by here-which amounts in the appreciate to about 24 duary chiefs, who held on conditions of loyalty lables.

The Central Provinces include aftern founds and good government set forth in patents and

Statistics relating to the chief States are slone. The Central Provinces contained in the following table :-

State	e :	Area.	Popula- tion 1011.	Revenue (approxi- mate) in Lakle.
,		Sq. Miles.		
Bastar Jashpur		13,062	433,310 171,458	3
Kanker Klialragarlı	- ::	1,429 931	127,014 155,471	2
Nandgaon Baigath	**1	871 1,450	167,262 218,860	4 2
Surgnja Eight States.	other	6,035 5,377	245,703 411,824	2 6
Total	***	31,174	2,117,002	23

Bastar.—This State, which lies to the south-east corner of the Provinces, is the most important of the group. It has an area of 13,007 square miles and a population of 433,310. The family of the Raja is very ancient, and is stated to belong to the Rajputs of the Lunar race. Up to the time of the Marathas, Bastar occupied an almost independent position, but a tribute was imposed on it by the Nagpur government in the eighteenth century. At this period the constant feuds between Bastar and the neighbouring State of Jeypore in Madras kept the country for many years in a state of anarchy. The chief object of contention was the Kotarad tract, which had originally belonged to Bastar, but had been ceded in return for assistance given by Jeypore to one of the Bastar, chief depring a proper to the content of the Bastar, chief depring a proper to the content of the Bastar, chief depring a proper to the content of the Bastar, chief depring a proper to the content of the Bastar, chief depring a proper to the content of the Bastar, chief depring a proper to the content of the Bastar chief and the content of t the Bastar chiefs during some family dissen-

Admini. tration finally made this over to Jeypore in 1863, on condition of payment of tribute of Rs. 3,000, two-thirds of which sum was remitted from the amount payable by Baster. By virtue of this arrangement the tribute of Baster was, until recently, reduced to a nominal amount. The cultivation of the State is extremely sparse. Rice is the most important crop. The State is ruled by the feudatory Chief. The Dewan is ruled by the feudatory Chief. The Dewan of the State is a retired Deputy Commissioner of the Central Proxinces who has three assistants of the Central Provinces who has the grand and under him. After a recent period of disturbance the State has returned to complete tranquility and precautions are being taken to remove all causes of unrest by better supervision over the minor State officials and a very considerate forest policy. The chief town is Jagdalpur on the Indravati River.

Surguja.—Until 1905 this was included in Chota Nagpur State of Bengal. The most important feature is the Manipat, a magnifi cent tableland forming the southern barrier of the State. The early history of Surgija is obscure; but according to a local tradition in Palamau, the present ruling family is raid to be descended from a Raksel Raja of Palamau. In 1758 a Maratha army overran the State, and compelled its chief to acknowledge himself a tributary of the Blionela Raja. At the end of the cighteenth century, in consethe end of the eighteenth century, in consequence of the chief having aided a rebellion in Palamau against the British, an expedition entered Surguja; and, though order was temporarily restored, disputes again broke out between the chief and his relations, necessitating British interference. Until 1818 the state continued to be the scene of constant state continued to be the scene of constant lawlessness; but in that year it was ceded to the British Government under the provisional agreement concluded with Mudhoji Bhonela of Berar, and order was soon established. The principal crops are rice and other cereals. The population is mainly aboriginal, the wild Korwa tribe being a perpetual source of trouble. A band of them committed several murders and robberies in 1910.

KASHMIR.

Kashmir (known to Indians as Jamma) lies to the cast of the Indus and to the west of the Ravi. It is a mountainous country with just a strip of level land along the Punjab frontier, and interrected by valleys of which many are of surpassing beauty and grandeur. It may be divided physically into two areas: the northeastern comprising the area drained by the Indus with its tributaries, and the south-western, including the country drained by the Jhelum, the Kiehanganga and the Chenab. The dividing line between those two areas is the great central mountain range. The area of the State is

destroyed by the Mahomedan kings who first appeared in the 12th century. In the relan of Sikandar the population became almost entirely Mahomedan. Akbar visited the valley three times. Jehangir did much to beautify it; but after Auragzebe there was a period of disorder and decay, and by the middle of the eighteenth century the Subah of Kashmir was practically independent of Delhi. Thereafter it experienced the appropriate the subah of the subah the oppression of Afghan rule until it was rescued, in 1810, by an army sent by Ranjit Singh. Sikh rule was less oppressive than that of the Afghans. The history of the State as at Mountain range. The area of the State is St.432 square miles, and the population present constituted is practically that of one man, a Dogra Rajput, Gulab Singh of Jammu. History.—Various poets have left more or man had been made Raja of Jammu in 1820, and be added largely to his territory by less trustworthy records of the history of the valley down to 1886, when it was conquered by Akbar. Srihagar, the capital, had by then been long established, though many of the fine buildings erected by early Hindu rulers had been made Raja of Jammu in 1820, and he added largely to his territory by conquest. He held aloof from the war between long established, though many of the fine buildings erected by early Hindu rulers had been cisins. His an Rouble Shoth, a model Hindu rated toon 1857 to 1855, when he was succeeded

ADMINISTRATION,---Fire STATE. Malaraja took no part in the administration of the State, but since 1905 he has exercised full powers, assisted by a Chief Minister—Hal Sahebi thwan Amar Nath, ca.v.—a Home Minister, and a Revenue Minister. The four chief excentive officers are the Governors of Jammu and of Karlimle, the Werle Wararat of Olleli and the Warie Wazarat of Ladalds. The real administrative power lies with the petty enhors. dinate officers (tabilidats) who exercise revenue, civil, and Priminal jurisdiction with regular riages of appeal: but distance and the absence of easy communications are practical checks on have been those for an electrical power station the use or abuse of appeals. The little lieston on the Thelum filter, and for a Railway into drut has his headquarters at Schnazar; there is Kashmir. It was proposed to supply from this also a Political Agent at Gligit responsible to the Government of India for the administration of the outlying petty States; and a British Officer is stationed at Lab to arelet in the supervision of Central Asian trade. In the Dogma the State! has splendld materials for an Army, which consi-ts of 6,001 troops, of whom 3,370 are maintained as Imperial Service troops.

FINANCE.—The financial position of the State 12 strong, and it has more than 40 lakhs invested The total In Government of India securities. revenue last year mas 93 lables, the chief items being land revenue, forests, customs and octrol.

"ryotwari in tuins," great complexity existing owing to the fact that there is no local law of rent and revenue. The principal food crop is rice, maire, cotton, raffron, tobacco, hops (autumn crops) and wheat, barley, poppy, beans (spring crops) are also grown. Slicep are largely kept. The State forests are extensive and valuable. Exploration for minemis has not been attempted on sound principles. Vast fields of friable, dusty coal have been found. Gold has been found at Gulmarg and Sapphires in Padar. The industries of manufacture are

(1816) when the Bittl-h made over to him for billing connected with recienture (the slik fila-18, To lable the present territories of the State, i ture at Schwazer, the largest in the world, was He had to field for the valley and entergiently distroyed by fire in July 1912), oil-pressing and but fact of his plate, tilled, over which they the manufacture of wine. The woodlen cloth, the series had at a leavy sect to reasest their charle, and wood carving of the Stato are famous.

Countrications.-The State contains only Iv blackle tain Major-General H. H. Maharaja, 40 miles of railway on the Tawl-Suchetgarh at Partab Singh, u.c.d.r., u.c.d.r., u.c.d.r., the only nayleable river. At present there is much activity in improving road communications, but in many parts of the country wheeled traffic is unknown.

Printe Works.-In 1904, a flood spill channe above Sringear was constructed with a view to minimising the constant risk of floods; and it was hoped that the danger would be still farther reduced by the carrying out of a reheme for lowering a part of the hed of the Jhelum, which has since been taken in hand. Good progress has been made with irrigation; but the most important rehemes of recent years on the Jhelum River, and for a Raliway Into Rashmir. It was proposed to supply from this power station electrical energy for various State schemes (including the Jhelum dreiging scheme) and for private enterprise and possibly for working the proposed Kashmir Railway. The works were compacted and the scheme according to the latest reports is working very satisfactorily. The proposal for a railway to Kashmir had been under discuesion for many years, the nature of the country making the question of route a difficult one. In 1905, a decision was taken in favour of a line from Srinagar ria the Jhelum Valley and Abbottabad, but the project has remained in abeyance pending the consideration of further PRODUCTION AND INDUSTRY.—The popul schemes, among which are proposals for lines lation is pre-eminently agricultural and pastoral, of ropeway from Jamma to Bringuar and from The system of land tenure has been described as Brinagar to the western borders via the Justium Valley.

> Regerment.—In educational matters Kashmir is the most backward tract in the whole of India. In the State as a whole only 2 in every 100 persons can read and write. The number of educational institutions has increased from 45 In 1891 to 370 in 1911.

> Resident:-Lieut-Colonel A. D. A. G. Bannerman, O. V. O., O. I. E.

Political Agent, at Glight-Major C. A. Smith.

Native States' Tribute.

Many of the States pay tribute, varying in amount according to the circumstances of each case, to the British Government. This tribute is frequently due to exchanges of territory or settlement of claims between the Governments, but is chiefly in lieu of former obligations to supply or maintain troops. The actual annual receipts in the form of tribute and contributions from Native States are summarised in the following table. The relations of the States to one another in respect of tributes are complicated, and it would serve no useful purpose to enter upon the question. It may, however, be mentioned that a large number of the States of Kathlawar and Gujarat pay tribute of some kind to Baroda, and that Gwallor claims tribute from some of the smaller States of Central India:—

States paying tribute directly to the Government of India.

										£	
ribute	from	Jaipur	11	* *	-			• •]	26,667	
49	59	Kotah	• •							15,648	
**	99	Udalpur	* 3	* =	* 8			• •		13,333	
17	91	Jodhpur	* *	P D						6,533	
53	73	Bundl		* 0]	8,000	
**	9.9	Other Sta	tes	• •	* *					15,170	L
anidh	ntion	of Jodhpu	e towns	da aad	of To	1	T			7.000	85,351
ZIII 1110	Triil T	of Kotah i	OWNE	us cost	OI Er	mpura	Trregul	ar For	e	7,667	
"		of Bhopal	towned	a cost o	r Bbo	ratregu	mit T.OL	ce	**	13,330	
.:							Cont	in a con t		10,753	
Contrib	utions	towards c	ost of	czial.	Rhile	hrna	n cont	meerr		0,142	
					D C (arfi.a	• •	• •		2,140	43,035
r'ecs on	EUCCE	e-ion							ï		3,437
				• •	•••	••	••	• •			0,101
							Т	'otal			181,523
		C	entral P	rorince	s and .	Berar.	•				101,000
Tall sed a									- 1		
1 monte	irom	various St	ates				• •	* *			15,696
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	75 HOL	other Sta	ton			8.4	• •	• •		28,324	
13	70	Other Bit	ites.,					• •		1,367	1
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				Dengu	WING Z	LESUM.					<u> </u>
Tribut		Manipur :							1	0.000	
91	99	Rambrai					* *	• •	••	3, 333	
					• •	**	* *	••	**	7	3,340
Telbut	A fees	various 8		Ber	ıgal.						1 0,010
THORK	е поп	a various 5	tares					• •			4,514
			27.	rited P						••••	(Coorh
Tribut	e fron	a Benares	CI	inea 1-1	rorince.	£,					Behar).
11	**	Kapurth	nîa (Ra	hraich	**					12,667	
			(24	P	ınjab.	* *				8,733	21,400
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D		other Sta	ites			• • •	• •	• •		0,667	i
F.668 C	n suc	ccssion				•••	• •	• •	• •	3,086	1
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Tribui	to from	n Travance		И	adras.						9,000
Peshk	กรไรดา	d enpsigh	from M	**		• •				53,388	i
* (.111	ash a		TOTH VI	yeore ochin					• • •	233,383	1
"	•		" T	oenin Favanc	000		• •		• • •	13,333	1
,,	,,		1) I	avanc	ore	**			••	888	1
				P.	ombay.						300,887
Tribu	te fro	m Kathlaw	ar		omoug.					1	1
Cant	FL 4 . 8	various n from Bar	petty 8	tates	**	• • •	• •	• •	• •	31,120]
Contr	ingilo	n from Bar	roda St	ate			* *	••	• •	2,825	1
Subst	de for	m Cutch	irdars,	Southe	m Mal	iratta (Country	• •	• •	25,000	1
l'ecs	ON 600	ecesion	8.4					**	••	5,765	1
		поп	• •	• •	• •				••	5,484 3,457	
									••	0,491	.1 73,660
							G •				·
							Grand	Total	• •		591,097
	If	was annor	need -	4 43						1	1001,00

Naratana payments on successions. The details given above are for 1915.

Portugal and France both hold grant form.

The Portuguese Dossessions in India consist

Tortugal and Fiance both hold email tord.

The Portuguese present in the Indian Pennaula.

The Portuguese presenting Pennaula.

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Arabian of the Office of Goal in Indian Consist The total portuguese presenting within the Sca Constant Presidency on the gives a density of the Indian Presidency on the gives a density of \$43 pennas of the Constant Constant Constant of Constant of the Indian Office of the Indian Constant Constant of the Indian Office of the Indian Constant Constant of the Indian Office of the Indian Constant of C

Arabian Sea coast; the territory of Dunnar of O per control of the four the Gularat coast; the territory of Dunnar of O per control of Gularat coast; the territory of Dunnar of O per control of the Gularat coast; the territory of Dunnar of O per control of Gularat coast; and the little entanger viously for the Viously to the Century of the Pinther of the Viously of the Control of the Pinther o Architecture of the principle of the property of the principle of the prin

infles and are under conservation and yield some profit to the administration. Iron is found in parts of the territory, but has not been seriously worked. Manganese also exists and was worked to an important extent a few years ago.

Commerce.

In the days of its glory, Gon was the chief entrepot of commerce between East and West and was specially famous for its trade in horses with the Persian Gulf. It lost its commercial importance with the downfall of the Portuguese empire and its trade is now insignificant. Few manufacturing industries of any moment exist, and most manufactured articles in use exist, and most manufactured articles in use are imported. Exports chiefly consist of cocoanuts, betel nuts, mangoes and other futis and raw produce. A line of railway connects Marmagao with the Madras and Southern Mahratta Railway. Its length from Marmagao to Castle Rock, above the Ghats, where it joins the British system, is 51 miles, of which 49 are in Portuguesa territory. The railway 49 are in Portuguese territory. The railway is under the management of the Madras and Southern Mahratta Railway administration, and the bulk of the trade of Marmagao port is what it brings down from and takes to the interior. The telegraphs in Goa territory are worked as part of the system of British India, and are maintained jointly by the Bri-tish and Portuguese Governments. The Goa tish and Portuguese Governments. The Goal tish and Portuguese Governments. The Goal terrifory was formerly subject to dovastating famines and the people new suffer heavy losses in times of drought. They are then supplied, though at great cost, with rice from British territory.

The Capital.

Nova Goa, the present capital of Portuguese comprehends Panjim and Ribandar, as well as the old city of Goa, and is six mlles in extent. Old Goa is some five miles distant from the new city. Panjim occupies a narrow from the new city. Panjim occupies a narrow strip of land leading up to the Cabo, the cape dividing the Aguada bay from that of Marmacoa, and mainly slopes down to the edge of the Aguada. It was selected as the residence of the Portuguese Viceroy in 1759, and in 1843 it was mised to its present rank as the capital of Portuguese India. The appearance of the city, with its row of public buildings and elegant private residences, as seen from the water, is very picturesque and this impression is not belied by a closer inspection of its neat and spacious roads, bordered by decent, tidy houses. bened by a closer inspection of its near and spacious roads, bordered by decent, tidy houses. The most imposing public structures are the barracks, an immense quadrangular building the eastern wing of which accommodates the Lyccum, the Public Library and the Government Press. Other noticeable buildings are the Cathedral and various churches, the vice-regal palace, the High Court and so on. The square in the lower part of the town is adorned with a life-sized statue of Albuquerque standing under a canopy.

History.

Goa was captured for the Portuguese by alfonso de Albuquerquo in 1510. Albuquer-

quistas. They cover an area of 116 square came the metropolis of Portuguese power in the East. There was constant fighting with the armies of the Bijapur kingdom, but the Portuguese held their own and gained the surrounding territory now known as the Velhas Conduistas.

> The subsequent history of the town is one of estentation and decay. Gos reached its summit of prespective to the end of the six-teenth century. The accounts of travellers show that the Gos of those days presented a reene of military, ecclesiastical and commer-cial magnificence which has had no parallel in the British capitals of India. But the Portuguese based their dominion in India on conquest by the sword and they laboured to consolidate it by a proselytizing organisation which throws the missionary efforts of every other European power in India Into the shade. Old Goa, as the ruins of the old capital are called to-day, had a hundred churches, many of them of magnificent proportions, and the Inquisition was a power in the land. The result showed how rotten was this basis and how feebly cemented the superstructure reared upon it.

Modern Times.

There was frequently recurring fighting and in 1741 the Marathas invaded the neighbourhood of Gon and threatened the city itself. An army of 12,000 men arrived from Portugal at the critical moment. The invaders were beaten off, and the Novas Conquistas were added to the Portuguese possessions. In 1844 shelter given by Gon to fugitives from justice in British territory threatened to bring about a rupture with the British Government at Bombay. In 1852 the Ranes of Satari, in the Novas Conquistas revolted. In 1871 the native army in Goa mutinied and the king's own brother came from Lisbon to deal with the trouble and brother and leave at the safe by trouble and having done so disbanded the native army, which has never been reconsti-tuted. But another outbreak among the troops took place in 1895 and the Ranes join-ing them the trouble was again not quieted until the arrival of another special expedition from Lisbon. The Ranes again broke out in 1901 and again in 1912, troops being again imported to deal with the last outbreak, which was only reported concluded in the summer of 1913.

Administration.

Goa is regarded as an integral portion of the Portuguese Empire and, with Daman and Diu, forms for administrative purposes one province subject to a Governor-General, who is appointed directly by the Lisbon Government and holds office for five years. Besides his civil functions, he is invested with supreme military authority in the province.

military authority in the province.

The Governor-General is aided in his administration by a Council composed of a Chief Secretary, the Judges of the High Court, the two highest military officers in Gos, the Attorney-General, the Inspector da the Attorney-General, the Inspector da Fazenda, the Health Officer and the President of Corporation que promptly fortified the place and established of the capital (Camara Municipal das Ilhas), Portuguese rule on a firm basis. From this time Goa rapidly rose in importance and bethe Janks Geral di Provincia (general council cach of the Municipal Corporations of the of the province), the Conselho da Provincia, the Conselho Drovince. The difference das Olivas jubilies, the Conselho Tration there are subsoldinate agencies for the Inspector de Instruccao publica, and the Conselho Tration there are subsoldinate agencies for the Inspector de Instruccao publica, and the Conselho Tration there are subsoldinate agencies for the Province of the Chief Ferritary, the Arch dated the 27th July 1917, have established believe this cut titute, the Attorney-General new rules regarding the administration of the Inspector da Farenda, Inspector of Public Portugu se India, but the crules are not in Works, the Health Officer a Professor of the force as yet.

orsiders and vote in every matter on which Medico-Surgical College, a Professor of the they are concelled by the Governor-Henrial, Lyccum, or educational College, a Professor of There are five other juntas, or councile, called the Normal School and a representative from the Janua Geral de Provincia (general council, each of the Municipal Corporations of the of the provinces the Councille of the American descriptions of the Control of the Councille of the Counci

DAMAN.

trance to the Gulf of Cambay, about 100 miles twentieth part of the territory is under tillage. north of Bombay. It is composed of two The principal crops are rice, wheat, the inferior north of Bombay. It is composed of two The principal crops are rice, wheat, the incrior partiens, namely, Daman proper, lying on the ecreals of Unjant and tobacco. The settle coast, and the detached pagans of Savar ment contains no minerals. There are stately Avell, separated from it by a narrow strip forests in Nagar Avell, and about two-thirds of British territory and bisected by the B. B. J of them consist of teak, but the forests are not & C. I. Rallway. Daman proper contains an conserved and the extent of land covered by area of 22 square miles and 26 villages and has each kind of timber has not been determined, a population (1910) of 18,300. Nagar Avell Before the decline of Portuguese power in the last an area of 60 square miles and a nomine Last. Daman carried of an expensive conjugace. a population (1910) of 18,500. Nagar Aveil Before the decline of Portuguese power in the has an area of 60 rapare miles and a population (1910) of 29,020. The town of Daman especially with the cast coast of Africa. In those was eacked by the Portuguese in 1531, rebuilt days it was noted for its dyeing and weaving. It is the natives and retaken by the Portuguese. The territory forms for administrative purples a single district and has a Municipal manent establishments in India. They control the more power of the and Corporation. It is ruled by a verted the morque into a church and large ince built eight other places of wordin. Of the fold population the number of Christians of Goar The judicial department is administrative purples. The number of longes is 8,971, according to the same census. The native Christians posed of a delegate of the Attorney-General adopt the European costume, some of the and two clerks. In Nagar Aveil the greater women dressing themselves after the present

The rettlement of Damon lies at the envelopt despite the care of cultivation only one-

women dressing themselves after the present part of the soil is the property of the Govern-European fashion, and others following the ment, from whom the cultivators hold their old style of petticoat and mantle once pre-tenures direct. A tax is levied on all lands, valent in Spain and Portugal. The roll of the rettlement is moist and fer-tile, especially in the pargana of Nagar Avell, forests, excise and customs duties.

DIU.

but excellent harbour, where vessels can safely Diu, from which the island takes its name, ride at anchor in two fathoms of water and owing to the great advantages which its posiconmercial prosperity. The total population tion offers for trade with Arabia and the Performance of the Island, according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island, according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island, according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island, according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island, according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese were fired at an instance of the Island according to the census of 1910, sian Gulf, the Portuguese of the Island according to the Control of the Islan early period with a desire to obtain possession

Did is an Island lying off the routhern ex- of it. This they gained, first by freaty with Did is an island lying off the fouthern ex- of it. This they gained, here by fronty with tremity of the Kathiawar Peninsula, from the Sultan of dujarat and then by force of which it is separated by a narrow channel arms. Did became opulent and famous for through a considerable swamp. It is composed its commerce. It has now dwindled into insoft three portions, namely, Did proper (Island), significance. The extreme length of the island the village of Gogla, on the Peninsula, separated is about seven miles and its breadth, from by the channel, and the fortress of Simbor, north to south, two miles. The area is 20 about 5 miles west of the island. It has a small square miles. The population of the town of but excellent heaters where where several can affect. The form which he island takes the name

FRENCH POSSESSIONS.

live Settlements, with certain dependent lodges, or plots. They aggregate 203 square miles, and had a total population in 1012 of 282,386. The first French expedition into Indian waters,

The Trench possessions in India comprise was attempted in 1603. It was undertaken by private merchants at Rouen, but it failed, plots. They aggregate 203 square miles, as also did several similar attempts which followed. In 1642 Cardinal Richellen founded the first Campagnio d'Orient, but its efforts with a view to open up commercial relations, met with no success. Colbert reconstituted the Company on a larger basis in 1664, grantling drands Aldee, Cotchery, for the establishment exemption from taxes and a monopoly of the of Karikal, and also Chandernagar, Mehe Indian trade for fifty years. After having twice attempted, without success, to establish tself in Madagascar, Colbert's Company again took up the idea of direct trade with India and its President, Caron, founded in 1668 the Compton, or agency, at Surat. But on finding that city unsuited for a head establishment in seized the harbour of Trincomalee in Coylon from the Dutch. The Dutch, however, speedily retook Trincomalee; and Caron, passing quarters charget, necessarily engross a large the seized the harbour of Trinconnaice in Ceylon from the Dutch. The Dutch, however, speedily retook Trinconnaice; and Caron, passing over to the Coromandel coast, in 1672 seized St. Thome, a Portuguese town adjoining Madras, which had for twelve years been in the possession of Holland. He was, however, compelled to restore it to the Dutch in 1671.

and has ever since remained, the most important of the French Settlements in India. Its and of the French Sculements in India. Its foundation was contemporaneous with that of Calcutta. Like Calcutta, its site was purclinsed by a European Company from a native prince, and what Job Charnock was to Calcutta Francois Martin proved to Pondicherry. On its restitution to the French by the Peace of Ryswick in 1697, Martin was appointed Governor, and under his able management Pondicherry Lecame an entrepoit of trade. Pondicherry became an entrepôt of trade.

Chandernagar, in Lower Bengal, had been acquired by the French Company in 1688, by grant from the Delhi Emperor; Mahe, on the Malabar Coast, was obtained in 1725-6, under the government of M. Lenoir; Karikal, on the Coromandel Coast, under that of M. Duma, in 1739. Yanam, on the coast of the Northern Circars. was taken possession of in 1739. Circars, was taken possession of in 1750, and formally ceded to the French two years later.

Administration,

The military command and administration-in-chief of the French possessions in India are

quarters charges, necessarily engress a large proportion of the revenue. All the state and dignity of an independent Government, with four dependent ones, have to be maintained. This is effected by rigid economy, and the prestige of the French Government is worthly The ruin of the Company seemed impending the scene of considerable religious pomp and when one of its agents, the celebrated Francisches agents, the celebrated Francisches Martin, suddenly restored it. Rallying Archbishop, with a body of priests for all under blin a handful of sixty Frenchinen, French India; and of the Missions Itanagene. under him a handful of tixty Frenchmen, saved out of the wreek of the settlements at Trincomalce and St. Thome, he took up his abode at Poudleherry, then a small village, which he purchased in 1683 from the Raja of a large proportion of its Christians are British began to spring up; but he was anable to hold the town against the Dutch, who wrested it from him in 1693, and held it until it was restricted to the French by the Peace of Ryswick in 1697. Pondicherry became in this year, and has ever since remained, the most import- of British India, and Karikat is linked to the of British India, and Karikal is linked to the same railway by the branch from Peralam. A Chamber of Commerce consisting of fourteen members, nine of them Europeans or persons. of European descent, was reorganised by a deener of 7th March, 1014. The capital, Pondicherry, is a very handsome town, and presents, especially from the sea, a striking appearance of I'nuch . civilisation.

People and Trade.

The Settlements are represented in Parliament at Paris by one senator and one deputy. These are at the present time Mons. I. Flandin and Mons. P. Bluysen, respectively. There were in 1916, 61 primary schools and solleges, all maintained by the Government with 386 teachers and 9,083 pupils. Local revenue and expenditure (budget of 1917) Rs. 10,22,080. The principal crops are paddy, groundaut, and ray!, There are at Pondicherry 5 cotton mills, and at Chandernagar 1 jute mill, the cotton mills have, in all, 1,622 Inchief of the French possessions in India are vested in a Governor, whose residence is at Pondicherry. The office is at present held by Monsieur A. Martineau. He is assisted by a Service" in the different administrative departments, and by a Chief Judicial Officer. Intents, and the members being chosen by a sort of univernal suffrage within the French territories. Seventeen Municipalities, or Communational Chief, Arikan Coupan, Modeliarpeih, Oulgaret, Camp, for the establishment of Pondicherry; Rarikal, Nerwy, Nedouncadou, Tirunalar, Karikal, Nerwy, Nedouncadou, Tirunalar, Karikal, Nerwy, Nedouncadou, Tirunalar, University of the September 1917. 1 jute mill; the cotton mills have, in all, 1,622 looms and 73,002 spindles, employing 12,020 persons. There are also at work one oil factory

The Indian Frontiers.

Book," in the articles on the Indian frontiers, it was pointed out that this question was for nearly three generations an issue between threat Britain and Russia. With one or two notable exceptions, British statesmen and British soldiers were able to view this issue solely in terms of Russia; they attempted to meet it by opposing Russia in every part of the world; by ing Russia in every pare of the world; by building up buffer states between the Indian Impire and Russia in Asia; and by maintaining inviolate the isolation of India on the landward side. A sketch of the frontier difficulties of the Indian Government since the British began to assume territorial power in India is really a reflection of the history of Europe. Our earliest dangers were either internal, or came from the sea. The sea memace was not of long duration. The defeat of the Portuguese and the Dutch left us with only Fortuguese and the Dutch left us with only one serious rival, the French, and when the geapower of France had been shattered by the folling of the gallant Suffren, her sciences for dominion broken by the feeble support given to the great Duplex, and her hopes of advantage in India dinally dispersed by the overthrow of Hyder All, then the foreign menace lapsed for well-nigh half a century. Meanting the process of internal consolidation Meantime the process of internal consolidation advanced so rapidly that when renewed presadvanced so rapidly that when renewed pits sure came from the North, there was no rival to the British in India, and only one consider route was one of the great highways of the able military power, the Sikhs under Ranjit world. When Alexanderset out on his career Singh. Such were the conditions when fears of conquest twenty-two centuries ago, there of Russian intrigues in Afghanistan, and the belief that the Amir Dost Mahomed was lending a ready car to them, induced the disastrous a tempt at a thom, induced the disastrous attempts to set the exited Shah Shuja on the throne of Afghanistan, and inaugurated the most deplorable opisode in Indian frontier policy, the war of 1838. That was the first stage in the long duel between Great Britain and Presis for inducence in the constraint of the constr and Russia for influence in Central Asia and on the confines of India. There are no pages in British history which are so unpleasant to turn. Our policy may be summed up in a sentence impotent opposition to the Russian advance in Central Asia. Russian policy was much more simple. In part her advance sprang from the inevitable clash of a higher civilization with a lower; in part, no doubt, her officers were not loth to pay off, by setting us in a fer-ment in Central Asia, scores made on the heights of Balacisva and at the Berlin Conference. It was not until war was avoided by a hair's breadth that relations began to improve. The Russo-Afghan affray at Penjdeh in 1885 brought both countries to a realisation of what they were nearly fighting over. After that there was a slow improvement. The Russo-Afghan boundaries were delimited. The frontlers on the Pamirs were settled. There were alarums and excursions during the Russo-Japanese war, when erroncous accounts were circulated of when erroncous accounts were chemical of great Russian concentrations in Central Asia, and again, when intrigues with Tibet forced Lord Curzon to send the Younghusband Expedition to Lhasa. But the ground was gradually prepared for the Anglo-Russian Agree-

In the cardereditions of The "Indian Year | ment, and since after conclusion of that instrument the Prontier question, as it used to be understood, has faded into the background; until it was revived by German aggression.

The Land Route.

We have said that the Indian frontier quistion was a reflection of the general European situation. Whilet the gaze of the British people was concentrated on Russia, which with her huge Asiatic possessions could never have seriously considered the conquest of India, they failed to see the real menace which sprang from the eastern ambitions of Germany. It is one of the ironies of the situation that a British Ambassador at Constantinople, who is generally described as able, actually encouraged the advent of Germany into Asia Minor as a counterpoise to Russia and thus laid the train for the present war. For it is not open to doubt that the ultimatum to Serbia was designed to reduce that State to a condition of servitude to Austria, and thereby to pave the way for an advance to Salonika, the conquest of Constantinopie, and an advance through Asia Minor to the Persian Gulf. All these ambitions were centered in the revival of the Land Route to the East. We study our history so carelessly that the real history of the land route to the East survives in little more than a shadowy knowledge of the was an easy high road from Mesopotamia to Selstan and not a very difficult one to Mekran; and so it came about that migratory movements, either compulsory or voluntary, continued through centuries, ever extending their score until checked by the deserts of the Indian frontier, the highlands of the Pamirs or Tibet, or the cold wastes of Siberia. The closing of this road was due to the eruption of the Afghan, the Turk and the Mongol; and in particular to the final downfall of the Empire of the Kalipha before the destroying hordes of Chengiz Ehan and Tammerlane. The land route was closed, and the perfection of sea communications prevented the existence of any strong economic need for its revival. The improvement of the caravan route between Nushki and Selstan, for Meshed, represents the only improved land communication of the British Empire for all these years. The abortive proposal for a railway along the Euphrates Valley meant the killing of the one project which might have prevented the later complien-

Advent of Germany.

But if the British people failed to understand the teachings of history, and were folled into the complacent belief that the land route could be indefinitely closed and all traffic with the East confined to the sea, whereon they were masters, the German Government refused to subscribe to this comfortable delusion. The story of the revival of the land route, and with it a whole chain of German ambitions is filtle known, and was for long preserved in fragments. It has however been told with Homberts, which in 1820 because a considering and clearness in the 20th number the reader in search of more defailed informas the referred. We make the stimmaries the fresh the make the first the referred to the first the make the first t properly belong to the detailed frontler sections

The first visit of the Emperor William to Constantinople in 1880 saw the dawn of a Pan-Germanic Scheme which was known in as the B.B.B. - Bellin-Byzantium. Bashdad, After the war began, a Professor, lecturing at Berlin, said that Germany's aims might be summed up in four catchwordsmigne be summed up in hour catemorus North Sca, Constantinople, Baghdad, Indian Ocean, Another avourite expression, attibuted to the Emperor, was a Germanic wedge. reaching from Hamburg to the Persian Guif.
The sters towards this goal were very deli-The step, towards this goal were very deli-berately taken. The first measure was to hecalify taken. The first measure was to influence at Constants. Addul Hamed, and discretely maintaining his influence against the rest of Europe. At a time when Abdul Hamed's hands were red with the blood of the Armenians numbered by his orders in his capital and his provinces, the Lader professed himself his warm friend, and kateer professed himself his warm thene, and steadhadly refused to support any measures to save the lives of the Armenians or to check misgovernment in Macedonia. The reward liank Eroup, which had acquired control of the rallways of European Turkey extended the railways of European Turkey, extended lis influence to Asia Minor, After the recond Visit of the Kalser to Constantinople in 1898, there came the Baghdad Rallway concersion there came the Baghdad Rallway concersion (q. v.) by which the Sultan amended a concersion for the continuation of the Anatolian milways (a German enterprise) to Baghdad and the Persian Gulf to a German Syndicate. This was styled The Imperial Ottoman Raghdad Rallway Company and the concession was Rallway Company, and the concession was signed on behalf of Germany by Herr von Siemens, of the Deutsche Bank. By a further and more definite concession, granted in 1003, to Herr von Gwinner, of the Deutsche Bank, Turkey guaranteed interest on the cost of the line at the rate of \$700 per annum per kilo-metre. This was sufficient to ensure the promoters a handsome profit on the enterprise, regardless of the troffic conditions. There is a good deal of misconstruction with regard to the line which the Germans are building under this concession. All sorts of estimates liave been made on the assumption that the tine will be suited only for slow trains, and the conclusion has been drawn that the sea route will be able to complete with it for passenger the line are being built to a standard which in India is applied to express traffic, and which thora is appeared to express traine, and water even in the Indian hot weather Permits trains

Persian Gulf Port.

An essential part of this scheme was a port to serve as a terminus for the railway in the

next year via terminal examination a view time nate at Burbline, there were then rix terminal subjects. In the Petrian Guil, In 1802, after the elgular of the definitive Bandalad Railway concersion, this activity increased The German cruber Atoma Meted Various fair of the Gulf. A party of therman varien-lists, appeared at Bunder Abbas. In 1990 Herr Stomich, German Commistererial at fort stemper, to than consumeration of Constantinople, travelled overland to the Gulf at the head of a rule-len, which included the at the head of a marsion, which maximum the therman Military Attache at Constanting le. the visited Sheith Mulwark of kowrit and tried to buy a site at Ras Kathama, at the head trin to my as in a ran continuo, at the mark of the Ray, as a terminus for the rallway. He was refused, for the Shelish had entend into an agreement with Great Dittain not to leave an agreement with second prinam not to teach of dispose of any part of his possessions to a foreign power without our permission. Ballied now all powerful at Constantingle, killered now all powerful at Constantingle, killered up the Turks to attack Sheikh Muharak. In up the Jurks to ather cherm mining, in 1901 a Turkish corn ite, packed with troops salled into Bowelt harbour and the commander announced that he propo ed to take procession of the town. A Dritish confer intervened and of the town, a prinsa cruser interventa and the Turks salled away. Later a high Turkish official, with a menacing letter to the Shekh, entered the harbour and retired for the same reason. Two other attempts reason. Two other attempts were made the first was to attr up 1bn Rashid, of Central Arabia, to attack Kowell, the second to incite Mubarak's nepliews to the same end; with the failure of these efforts the direct German affacks anime of these chorts the three therman allacks on Kowelt came to a conclusion. They once to have discovered an alternative terminus to the railway in at Khor Akshullah, north of roots them which remained mutil to establish posts there, which remained until the eve of

Meantime commercial penetration was energetic. The firm of Wonekhaus was exceedingly active and expanded all over the Gulf, ruon lines which could not have been com mercial profitable. Various attempts were made to acquire a pied a terre, and one almost succeeded The Sheikh of Shargah granted a concorsion to three Araba to work the red oxide deposits or the island of Abu Musa and the Amba transferred it to the Wonckinus firm. The Sheikh pro-tested and with the assistance of the British the Intruders were removed, the German Press Protested, but the Government confined themselves to the German terminal continued themselves to the German carrier to the German c German agent sought to obtain an irrigation concession in the Karun. The Hamburg-america Company entered the Gull trade with a great flourish of trumpets and a display calculated to Impress the Arabs. This was the position when three years before the war a serious aftempt was made to arrive at an agreement between Great Britain, Germany to serve as a terminus for the railway in the Persian Guil. The steps taken to this end commercial terminus, Rasm. No extension diplomacy. The first German firm to appear beyond Basm was to be made without the and Turkey which would regularise the and Turkey which would regularise the position. It provided that the terminus of the Bagbdad Railway was to be at the true

Trucial Chiefs, and to evacuate the Feninsula of II Katr, near Bahrein. Great Britain agreed to recognise the suzerainty of Turkey over to recognise the suzerainty of Turkey over Koweit, on the condition that Turkey did not

abandon her pretention to suzerainty over the interfere in the internal affairs of the Shelki Bahrein Islands, Maskat and the territory of the and recognised the British conventions with

THE EXPEDITION TO MESOPOTAMIA.

the progress of the expedition to Baghdad, traffic of the two rivers. It is only sixty miles although a consideration of the position of from the sen and the river channel is an deep although a consideration of the position of Basra and Baghdad in the polity of the Guif that it could easily be made available for properly belongs to a later section. For some time before the actual outbreak of hostilities through the Sucz Canal. The only obstacle on October 29th, 1914, the British Government had known that the participation of Turkey in the war on the side of Germany was inevitable; they were determined not to give the Turks any excuse for hostilities, but at the same time they were prepared. A Poona Brigade, under Brigadier-General Delamain, was sent to the Island of Bahrein, to be ready for all emer-gencies. Consequently when the Turks com-menced hostilities it was in a position to act with vigour. The first British troops reached the bar at the mouth of the Shatt-cl-Arab on November 27th and took Ino, an old-fashloned Turkish fort and cable station. They then proceeded thirty miles up the river and landed at Saniyeli in order to protect the works of the Anglo-Persian Oil Company, which is working a valuable petroleum concession in the valley, of the Karun (q.v.) On November 13th, Lieutenant-General Sir Arthur Barrett, who had been placed in command of the operations, arrived with strong reinforcements, and on November 15th drove the Turks from part of the village of Sahain. On November 17th, the whole force moved north, found Sahain evacu-ated, got in touch with the Turks at Sahail, near the river, and after a sharp action, in which the Dorsets especially distinguished themselves, drove them out with considerable loss. On the morning of the 24th came the unexpected intelligence that the Turks had evacuated Basra and that the Arabs were looting the town Sir Arthur Barrett pushed forward with all speed by land and river, and on November 23rd the British troops formally entered the city. The notables were assembled, a proclamation stating the reasons for the occupation and the friendliness of the British Government was read, and salutes were fired.

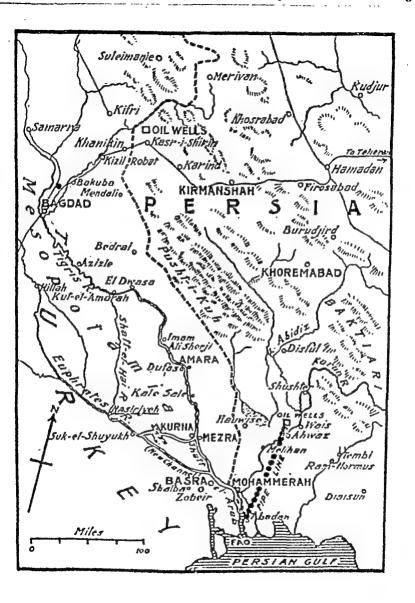
Importance of Basra, -The importance of Basra was for long little appreclated by the British people, who had their gaze directed on the possibilities of Koweit as a terminus for the Baghdad railway and to the traditional glories of Baghdad Itself. But Basra is bound to become one of the great ports of the world. The main portion of the city lies up the contracted Asshar Creek, a quarter with narrow, un-paved streets two miles from the river. The paved streets, two miles from the river. The population is estimated at 60,000, but there are probably many more people in the outer auburbs. The auburbs. The population is very mixed including many Jews and Armenians. The Turks are few in number and consist mainly of the officials and the garrison. The merit of the city lies in its geographical position. It lies just below the confluence of the Tigris | Kurna, on December 9, the Turks occupied

At this point we may conveniently summarise | with the Luphrates and therefore receives the through the Sucz Canal. The only obstacle to its rapid development is the bar at the mouth of the Shatt-el-Arab, and as this is of the softest mud it could easily be dredged. Basra must of necessity be the port of the Middle Last; given decent government in Misopotamia and the dredging of the bar and it will become a powerful commercial factor in Asia.

The Garden of Eden .- After their retirement from Basra the Turks established themselves at Kurna, forty-nine rules northward, where the partially-blocked channel of the Euphrates joins the Tigris; this is often said to be the site of the Garden of Liden. It was the control of the channel of the c determined to expel them. An expedition for this purpose left Easra on December 3rd, and after preliminary successes found the Turk-in such force and so strongly entrenched that relulorcements were needed. These arrived on December 6th, the river was boldly crossed above Kurne, and then at midnight on the 6th a small steamer came down the river convoying an offer from the late Governor of Basra, Subil Bey, to surrender. An unconditional surrender was demanded and received, and at one o'clock p.m. on the 9th the Turks laid down their arms. In January a force of Turks, with the Turks laid down their arms. with six guns established themselves on the Ratta Canal, about seven miles north of the Mezera Camp near Kurna, and were shelled out; more serious fighting was to follow.

Fight for Shaiba.—The object of the Turks was now to recapture Basra. They find no large force nearer than Boghdad, which lies the the Turks was now the Turks of on the Tigels 600 miles (by river) north-west of Basra. The direct route to Basra down the Tigris was, however, blocked by the British occupation of Kurna. The Turkish forces therefore, came down that river as far as Kut-al-Amsra (220 miles from Bagedad) and thence along the Shatt-al-Hal, the canal which connects the Tigris with the Euphrates, to Nasariyeh on the latter river. From this point about 115 miles north-west of Basra, they marched across the desert, 15,000 strong. At Shalba, 10 miles west of Basra, they speculated Shalba, 10 miles west of Basra, they encountered a British force much inferior in numbers. Here on April 12-14 very severe fighting occurred far more severe than any previously experienced in Mesopotamia. For some hours on the last day the issue hung in the balance, and at one time our retirement seemed inevitable. In the end we were completely successful. The Turk had at least 5,000 casualtles; ours were about

Capture of Amara.—After our capture, 0



they fitfully bombarded the town. It was necessary to evict the enemy from their positions before we could advance north of Kurna. The problem was a formidable one, because the whole country for many nulles to the north was underseveral feet of water, except a few isolated sandbanks and hillocks such as those occupied by the enemy. The country is thus flooded every year on the melting of the snows in the far north round the head-streams of the Tigris. The ground remains under waters for six months or more, and the only thing to be done was to attack the enemy's positions in boats. The local boat, called a bellum, has a length of about 35 ft. and a beam of 21 ft., and is propelled by poles like a punt, or, in deep water, by paddles. The whole of the brigade stationed in Kurna was engaged for a good many weeks in learning to navigate these boats. At the same time numerous field guns were mounted on various other boats and rafts to enable them to approach within range of the Turkish positions. At dawn on May 31 the whole brigade moved out of Kurna for the attack. hundred boats were employed, each holding 10 men. Machine and mountain guns were nounted on pairs of boats yoked together. The spectacle of a brigade of infantry thus advancing across flooded country was perhaps unique in the history of the British and Indian Armies. Before the advance the Turkish positions were bombarded from the Tigtls by three sloops of the Royal Navy, by the Royal Indian Marine steamer Lawrence, and by the field guns already mentioned. The low hills attacked were occupied by Turks and Kurds, with about half a dozen Germans. Most of the flooded area to be crossed was thickly covered with reeds, through which the progress of our boats was very slow. The enemy had, therefore, a magnificent target. Fortunately they had no machine guns, while their rifle fire was not good. They had six field guns, but their ammunition was inferior and their gunnery poor.

On Norfolk Hill, three miles north of Kurna and the first position to be attacked, the enemy put up a fairly good fight, and the hill was not captured without a good deal of layonet work, our men leaving their boats and rushing the Turkish trenches. From all their other positions, six in number, the enemy fled as a result of our bombardment, or where their retreat was cut off surrendered without resistance. They had previously sunk several large harges across the Tigris, a few miles north of Kurna, in order to prevent our steam vessels from cutting off their retreat. But the work was not thoroughly done, and by the evening of June 1, the second day of the operations, our steamers were past the obstruction and in pursuit of the fieeing enemy. On June 3 we occupied Amara 87 miles above Kurna, without opposition. This town has a population of 10,000, and is the most important place on the Tigris between Baghdad (370 miles down etream)

without opposition. This town has a population of 10,000, and is the most important place on the Tigris between Baghdad (370 miles on stream) and Basra (130 miles down stream). By the ovening we had captured 80 officers and 2,000 men, seven guns, several river steamers, and other craft, and a large amount of ammunition. Eighty corpses were found on Noriolk Hill and a few of the prisoners had

number of low bills to the north, from which they fiffully bombarded the town. It was necessary to evict the enemy from their positions before we could advance north of Kurna. The problem was a formidable one, because the problem was a formidable one, because the officers. Two other German non-commissioned officers. Two other Germans, believed to be officers, except after isolated within a few hours by Redwin and billocks such as those occupied. Arubs.

Nasriych .- The capture of Amara was of more importance than the expulsion of the Turks from one centre. If the map is studied It will be even that after their retirement from Baera the Turks had three lines of advancefrom Amara they could move against the valley of the Karun or Basra at will; from Kut-al-Amara, further north, they were in a position to come down the Shatt-el-Hal to Nasrlych and then turn eastwards towards Basra, as they did when they attacked at Shalla. Now the advance against Amara was accompanied by sweeping operations up the Karun, and it is believed that the Turks who retird from General Gorringe's sweeping columns; finding themselves cut off from their base at Amara, suffered severely from the Marsh Arabs, who systematically murder the wounded and the stragglers at both sides. But from their base at Kut-al-Amara the Turks still had a double line of advance—down the Shatt-el-Hai and down the Tigris. The next operations were designed to force them back along the single line of communications rin the Tigris. The first series aimed at the capture of Nasrlyeh. The operations under General Gorringe which culminated towards the end of July in the brilliant victory for British arms just outside Nasarlych and in the capture of Nasarlych itself occupied almost exactly a month. As in all operations in Mesopotamia these were con-ducted as much by water as by land. Throughout the advance the heat was intense and there were few days that the temperature did not reach 115 degrees in the slinde. By day the heat in the fron vessels and the glare from the water were almost intolerable. By night innumerable mosquitos gave little rest to the wearled troops.

The Turks had constructed a dam on the Hakeika channel a short distance outside the Hammar lake. Although the existence of this dam was known it proved a much more diment obstacle than had been at first expected. The Turks chose the site carefully and expended a vast amount of labour on its construction, for it took the British a week of hard work to pass their by no means numerous ships through it. All this had given time to the enemy to bring up reinforcements and the British were now faced by a force greatly superlor in numbers to their own. The enemy occupied an entrenched position on both banks of the channel at the point where it leaves the Euphrates, On the 5th, the British attacked the Turkish position on both sides of the channel. Infantry moved along either bank assisted by the fire of gun-boats which moved up the channel behind them sweeping for mines. A fiect of bellums (small flat-bottomed boats) and the 30th Mountain Battery on rafts moved up the lake with the infantry attack, protecting their flank from a horde of Arabs who threatened an attack from the other side of the lake.

excepted the traidier, but, ero sing the Emplish greater past were directed to a find, areast taken in believe, they attached the Torbish we therefore of extremely fig. while the free conducts energy of the temperes, but, are ston the fire fighted Artiflery profiles and eastered a condition luttery.

The Tanks rethred up the cheer and on the next day the Pritish probation, as a line of Asaul. or the evening of the eth. On the sthit bear e eather that heavy windows reads had resided the enemy. General Corrings realised that be must walt until he was in a stone of treffice to utack, and set work to struction his own defence. The last of the ninterespots readled General Confiner on the 22rd and be made up his mind to attack the enemy see the i 28th, it was 6-3d in the execting before they ! were able to capture the last position at the point of the bayonet, the Turks refusing effort to suggester or leave the trenches. That night the navat brate probed on to Nastisch encountering a good deal of opposition as they's entered the town. The firing readually died down, however, and by the time the treopwere able to march in, all melitanes was at an end. All the artillery which the Turks had at Nastlych, 17 guns including one large houltzer, feli into the hands of the British as well as about a thousand prisoners and large stores of rifles and ammunition.

Rut-al-Amara,-Any detailed account of the minor operations which fed up to the fattle on the 27th and 28th September would pil many columns, for the British force had left the lower reacties of the elver and was operating 200 miles away from its bare, with lines of communication sin tching down the winding unornain counc of the Tigrie. The Turks had taken up a position on both banks astride the river with the Intention of preventing the British forces from reaching Kut-al-Amera. The line of defence lay almost north and south, for here the river flows approximately from West to East. A few miles above the Turkish position the river bears again more to the North. A boat bridge crosses the Tigris three miles below Kut-al-Amara. The defences constructed by the Turks stretched for about six miles on either side of the river. An old dry canal hed branches off at right angles to the right bank of the river, and its artificial banks twenty feet high were the only outstanding features in the whole monotonous landscape. A bridge of boats had been constructed at the place of concentration and this bridge was an important factor in General Townshend's plans for attack. Broadly, this plan was to make a demonstration against the enemy's right, that is on the right bank of the river, to give him the impression that this flank was to be the object of the main attack, and then, by means of the bridge to cross to the left bank of the river with the majority of his force and attack the Turkish left. Dawn on the 27th found the whole of the force in position. An immediate start was made, and in a short time the whole of the line was engaged by the enemy's long range fire, British troops on the right bank developed heavy artillery and infantry fire driving in the

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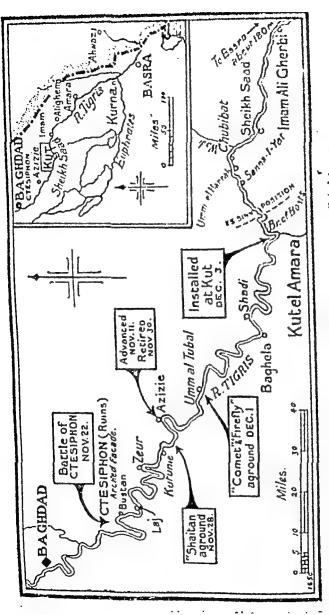
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Mustratur the lattle of Chesiphen and the retirenent to KultaleAmarta

fire before they closed with the enemy. At 200 yards the order was given to fix hayonets and as the whole line surged forward to the final assault the Turks broke from their shelter which they had captured and the heavy casual-ties were collected. Owing to the heavy losses and final assault the force, seven regiments in killed and wounded, especially amongst reached it by river on the morning of the 30th when Kut-al-Amara was formally occupied by

The Advance Towards Baghdad.

After the victory of Kut-al-Amara General Townshend pursued the routed Turks with the namost vigour, but the transport difficulties soon difficulties of an rigation during the season of was continued, moving by both banks of the river, and the enemy slowly retired to his pre-lared position at Cresiphon. The Turkish lines lay astride the Tigris, covering the approach to Bagndad, which was situated some eighteen miles to the north-west. They consisted of an extensive system of entrenchments forming two ches iving some five miles up-stream. On the

In the centre and against the north-east liank, represented from the Turkish standpoint noting action action lasting throughout the day ing more than strong rearguard actions and into and of thirtheen hundred prizoners. Our they know of the whole first position and of the continuous considerable from the second line, where they captured eight for the relief of Kut-ni-Aman, with the reasons. They were at once subjected to heavy for their failure, were recorded in a despectionally to be abandoned, as it was found that Gazette Extraordinary on october 15th, 1016 over the control of the c

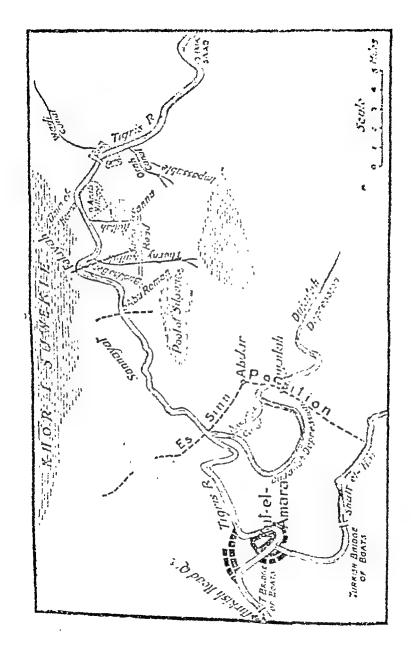
and fied. This was the force, seven regiments in killed and wounded, especially amongst inforcing his hard presed left. The Turks impossible to renew the offense we had one of the force evacuated the whole position during the night, having many guns and much ammunition. Turks heavily reinforced attacked the Reliab. inforcing his and position during the night, evacuated the whole position during the night, and many guns and much ammunition. Turks, heavily reinforced, attacked the British and the pursuing force with considerable loss. It was therefore decided to retire to Kut-ai-Amara, the decision being was impossible to renew the offensive, and the quickened by evidence that the Turks were pushing down the left bank of the river and also faland in order to cut off the force. The principal incidents of the refirement were a brisk ntmost vigour; but the transport difficulties soon troops were driven back. On the 30th the lutervened and the pursuit was arrested at main force had to halt at Ummial Tubul, as the five craft were in difficulties in the sheal water. caralry engagement east of Kutunic on the 29th, when the enemy's advanced mounted troops were driven back. On the 30th the Allian, thirty mies cast of clearmon. Here in ver cant were in dimension one should wave, the force halfed for the time; whilst it was here it was attacked in force at daylight on December to take the theorem that there is the theorem. the force naited for the time; whilst it was here the momentous decision to attempt to take ber 1st when the Turks lost heavily, and taking ments and stores were brought up to Azizah and brigade ugainst a force which was attempting to envelope his right flank (leparal Torresberg). to envelope his right flank, General Townshead broke off the action and made good his retirement to Kut-al-Amara, which was reached on

First Relief Measures - Within a month the steps to relieve the Kut garrison were taken. aniles to the north-west. They consisted of an southern point held by the Turks. The Turks consistency extensive system of entrenchments forming two were entrenched astride the Tigris, three and a massin positions. On the right bank the front half miles cast of Sheikh Sand and three three to turn their right did not succeed an attempt. On Junuary 4th General Aylmer advanced from Ali-al-Charbt towards shelk Saad, the couthern point held by the Turks. The Turks nam positions. On the right bank the front than mines cast of marks band and an attempt position extended from the river for about three, to turn their right did not succeed, owing to the niles in a S. W. direction, the second line then, presence of hostile cavalry and Araba in force. ches lying some five miles up-stream. On the left bank a continuous line of entrenchments and redoubts stretched from the river for a attack on both banks of the river, or a left attack on both banks of the river. Very heavy front position and parallel to it for about three six hundred prisoners and two guns, but the presence of hostile cavalry and ambs in force. the second line was about two miles behind the right bank of the river had been taken, with front position and parallel to it for about three six hundred prisoners and two guns, but the miles from the Tiggs, thence it turned north-cenery held fast on the left bank. On the 0th three wards to the Diain river. The enemy's strength runks we reforced to abandon their two of the 0th three troops, with thirty-eight guns in the (tesinhon; our troops. The heavy rain, converting the was estimated at thirteen thousand regular positions and relifed up-stream, followed by froops, with thirty-eight guns in the (tesiphon) our troops. The heavy rain, converting the position and it was reported that reinforce altuvial soil into liquid mud, made effective portant to attack before these fresh troops iresh position on the Wartington Converting the ments were arriving; it was considered important to attack before these fresh troops fresh position on the Wadi river. General were about 12,000 strong.

Our own forces Ayimer having rencentrated his whole force attacked the Wadi positions on both learning concentrated. were about 12,000 strong.

The Buttle of Ctesiphon.—G neral Townstend's tactics were similar to those employed at Laut-1-Amara—an attack in the centre accompanied by a wide flamking movement designed to turn the chanking movement march from Lail on the hight of the defie, with their right on the July and Laut-1-Amara—an attack as the centre accompanied by a wide flamking movement march and their they entrenched in the Umma-1-Hanna night march from Lail on the hight of the attack was delivered general Sir Percy Lake took supreme command. A severe notion lastic the north-east flank, represented from the Turktsh standpoint noth. in the centre and against the north-east flank, represented from the Turkish standpoint notice.

A severe action insting throughout the dec income than strong rearguerd actions and that



Ist These 10th to real January, an image. Rain now fell, converting the terrian followed to the Hancahi difference of the Hancahi difference. The chemys fire and the terrian following fell to the January to foth January to foth January to each terrian following fire and the assault failed. At the member of the following following the first property withdrawn to the main them to which the following follo 1st Phase, 10th to End January, an insue. Rain now fell, converting the terrian into a first the force the Bancals of the weal mude reversions a were austained through

The K-heral position on the Digits front on January 19th, 1 dec was that to heral Millione. defined the changed on the lift had a contract the first had been a first the lift had been a contract the wall file, which the of the fiver above the Wall flags, where the advanced involve with intouch with the large on the Well U. m. al Hannah wellion. It fortunated by a lately relevant from the way dominated by a lately relevant from the man is they of that if it rail represents the man is they of that if it rail represents the man is they of that if it rail represents the man is they of that if it rail represents the man is they of that if it rail represents the man is they of that if it rail represents the man is they of that if it is a lately the man is they of that if it is a lately in the man is they of that if it is a lately in the man is they of that if it is a lately in the man is the man in the man was communed to a losse community of an a school of prosisings and was an zim salsout his amount tion supply. The was also the question of for stalling the relators ments which the lorks the force, which had for the most part been the force, which had not the most five that the river had the river to the control of the river to the river that if the relief of Kut was to be effected, it must be aftempted at one . It was not until the first phase of the fight ng was on r that news the lifet phase of the high agreement that he we contain we present approximate has by steamer was freelyed on the largest and fout march, and route march, and regarded and trained the time the manches of sixty and some date ing with carried on at the front. At this time the number of river steam in June of 1915 the small light force began the first advancement. Its first advance up the river

Rush Tactics Fail the fetreating larks to the I must difficulty. Guns and troops were however doubt, which key some 5 nules south of the river the right bank. Which was done of great the river so as to co-opyrate from 14 miles south the south of the river attack, bonk. We no flade fire with the man right bank at the river on the left. January 20th was do revered on the left. January 30th was do reversely 30th was do not be beginning of the short of the 30th was do reversely 30th was do not and a half. Supports were reducted the front line with a month enabled the Turks to close their right by about an hour and a half. Supports were reducted to the Shatt-el-Hal.

On the affection of Reach with a month enabled to the Shatt-el-Hal. sent forward, but losing direction and coming sent forward, but losing direction and coming on the afternoon of March 7th, General under a heavy fire failed to reach them; left Aylmer assembled his subordinate commanders attacks, these troops were forced to retire, stress on the fact that the operation was design-

and capture of the Hartah and I stahetah have the was provisioned for digity-four prolition, a failure to fire the bann apart may be at the first first for the digital action was no

Success dellisoned. The whole force was perguised the burned in provintion of tomsorars triends and divisions, with which the A s had be to obtained to commence Readvance your Merchanty was showing its Inherent

Discusions and brigades, the units of which the weath off r and had s rved together in trainer, half priore has broken up to meet the fishall a of transport on a long sea voyage. the bard be no time on a long on voyage, the bard be no time on arrival in Moroproduced to await blated units in many for stalling the relative points which the lorks combinate usits, and bright and divisional theory of their feet and for regularity for the first available. This was a severe feeth and store the first and store was a severe ombasant units and brigad, and divisional handhap to the troops and steps were now taken to reconstint formations as for as prossible in their original condition. Throughout the month of 1-bruary preparations were and, for r-annung the off usive. It inforces in the m re faished up from the base by steamer

The prosition when the work of reorganization was completed and conditions were ripe for a ir sh advance were brutty the co :- On the left Resent Tactics Fail Marth hittle of the sum on the maining position in force, further that the following in real without the following in real without the following the following said and along the northern ir an an anner with the newly having been reinforced, bank, the enemy, having been reinforced, will bill the Hannih position in force, further the filtreating larges to the lamb at Samha at Vat. Nakhailat and along the northern the mouth of the death or as to be vert the neglection taking the off-rest. The weather at bottle of Hamab on the 21st January. They all project don both flanks by the Times. from taking the officers. The weather at factor of thomas on the 21st January. They for the rains council the fiver to overflow and the fiver to overflow the factor that the fiver to overflow the fiver to overflow the fiver to overflow the first bank to the same taking constituted the for the rains consed the river to overflow and the suwaki h marsh r apectivity. On the converting the termin facto a bog, the ternige right bank the Essinan position constituted the times, and the task of bridging the Tight, here position near B it-al-Less. The land advanced the Ession basis on the Digital bank of the Ession basis on the Digital bank of the Ession basis on the Digital bank of across the Wadi was wished away a veril rounded non non-order of the first sand the task of bridging the Juris, here position he are Bit-al-Lesa. The right flank of difficulty. Guns and troops were however doubt, which lay some 5 miles south of the river former and 14 miles south-west of the British line on the

On the afternoon of March 7th, General

I he Pronuers—ntesopoutina.

assisted by naval gunboats, confronted the enemy on the left bank. The remaining troops were formed into two columns under General Kemballand General Keary respectively, a reserve of infantry and a cavalry brigade being held at the corps commander's own disposal. General Kemball's columns, covered on the outer flank by the cavalry brigade, was to make a turning movement to attack the Dujallah redoubt from the south, supported by the remainder of the force operating from a position to the cast of the redoubt.

This night march was one of the tactical triumphs of the campaign. Despite the immense difficulties of such an operation, General Keary's column was in position at daybreak ready to support General Kemball's attack. General Kemball's column did not reach the point selected for its deployment in the Dujallah depression until an hour later—a

most prejudicial delay.

In spite of their late arrival the presence of so large a force seems to have been quite unexpected by the Turks as the Dujailah redoubt was apparently lightly held. When our column was apparently lightly held. When our commerce the fallotted positions prompt and energetic action would probably have forestalled the enemy's reinforcements, but time was lost by waiting for the guns to register and to carry out reconnaissances and when, nearly three hours later, General Kemball's trees advanced to the attack they were strongly troops advanced to the attack they were strongly opposed by the enemy from trenches cleverly concealed in the brushwood and were unable to take further ground for some time, though assisted by General Keary's attack upon the redoubt from the east. The southern attack was now reinforced and by 1 p.m., had pushed forward to within 500 yards of the redoubt, but consoled trushes comit storaged trushes. but concealed trenches again stopped further progress and the Turks made several counterprogress and the latter made activate which had now arrived from the direction of Magasis. It was about this time that the corps commander received from his engineer officers the unwellcome news that the water supply, contained in rain water pools in the Dujallah depression, upon which he had reckoned, was insufficient and could not be increased by digging. It was clear therefore that unless the Dujailah redoubt could be carried that day the scarcity of water would of itself compel our troops to fall back. Preparations were accordingly made for a further assault on the redoubt and at 5-15 p.m. attacks were launched from the south p.m. attacks were launched from the south and cast. Under cover of a heavy bombardment the 9th and 28th infantry brigades got within 200 yards of the southern face, where they were held up by heavy fire, although reinforced. Meanwhile the 8th Infantry brigade was a simple of the state of th gade, supported by the 37th, had assaulted from the east. The two leading battalions of the former, the Manchesters and 50th Rifles and some of the 37th infantry brigade, succeeded in gaining a foot-hold in the redoubt, but here they were heavily counter-attacked by

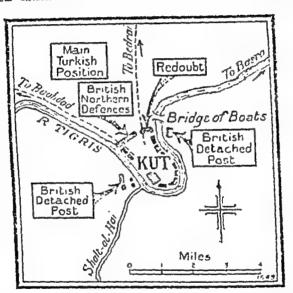
cd to effect a surprise and that to prevent the enemy forestalling us it was essential that from concealed guns in the vicinity of Sinn, the first phase of the operation, i.e., the capture of the Dujaliah redoubt, should be pushed through with the utmost vigour. His dispositions were briefly as follows:—The greater part of a division under General Younghusband, ed and General Aylmer considered that a resisted by nevel graphets converted the renewal of the assault during the night, 8th-9th March, could not be made with any prospect of success. Next morning the enemy position was found to be unchanged and General Aylmer decided upon the immediate withdrawal of his force to Wadi, which was reached the same

Heroic Failure.—General Aylmer was then removed from his command, supreme control at the front being vested in Major-General Gorringe on March 12. He was in supreme command during the fipal phase of the operations which extended from the 11th March to the 30th April. General Aylmer returned to India to take command of the Mhow division, which is one of the prize appointments in the Indian Army. Fresh troops now began to arrive up the river and it was decided to renew active operations as soon as the reinforcement was complete. Investigations were made as to the feasibility of an advance on Kut by the right bank from Sheikh Saad. Percy Lake's despatch says that this scheme was abandoned because it was shown that the terrain was not floodproof and might be inun-dated by cutting the embankments. It is understood, however, that the shortage of land transport was also an important factor in the. abandonment of this renewed project to turn to the Turkish right. It was therefore decided to take the Hannah position and to advance up the left bank. The Seventh Division, which had been engaged in sapping up the enemy's front trenches, was continually under heavy fire and hampered by floods. By March 28th the saps were 150 yards from the Turkish front line. On April 1 the 13th Divi-sion moved up from Sheikh Sand to relieve them in the front trenches preparatory to the assault. Owing to the heavy rains the assault had to be postponed until April 5 when the 18th Division rushed the Turkish first and 18th Division rushed the Turkish first and second lines in quick succession and by 7 a.m. the whole position was in our hands. The enemy's position was a mare of deep trenches occupying a frontage of only 1,300 yards between the Tigris and the Suwaikieh marsh and extending over 2,600 yards from front to rear. lleanwhile on the right bank the 3rd Division had been gaining ground. In the morning the sti Infantry Brigade, led by the Manchesters, captured the Turkish position on the Abu Roman mounds. During the day the fiver rose considerably and it was evident that a fresh flord was considerably and the was evident that a fresh flord was fresh flood was coming down. This pointed to the urgency of capturing the Falahiyah and the Sann-al-yat positions, three and six miles respectively west of the Hannah position, before the rising river should enable the Tuk's to flood the country. After nightfall a heavy bombardment was directed at the Falahiyah position after which the 13th Division assaulted and captured a series of deep trenches in several in caling a foot-hold in the redoubt, but here they were heavily counter-attacked by which had hitherto been in support now moved forward and passing through the 13th Division

eleaguered force was in no enviable position. Kut-al-Amara is a small and dirty village situated in a bend of the Tigris in the midst of the Chaldean desert. Its only outstanding feature is the blue glazed minart of the local mosque; it has the usual Oriental bazuar, otherwise it consists merely of the mean dwellings of the Arab population. Kut is a place of no resources apart from the traffic passing up and down the river; indeed the Tierls and the Euphrates are the beginning and the end of all enterprise, military and commercial, in incorporations. The miscrable town was full forgodamia. The miscrable town was full for wounded, for in the first critics of attacks alone they had 1,100 casualties and many were suffering from disease. So far as natural 6,000 Indian troops and their followers."

light, and prepared to starve them out. The conditions were concerned, honever, the Bettich were on lower ground, and therefore liable to be fooded out by the river. The official aunouncement of the surrender said :-

- "After a resistance profracted for 140 days and conducted with a collantry and forthude that will be for ever memorable, General Town. hend has been compiled by the final exhaudion of his supplies to surrender.
 - "Before doing to he destroyed his gens and
- "The force under him conslits of 2,970 British troups of all ranks and services, some



ridely felt at the conduct of the operations, field hospitals had arrived. As their casualties even before the battle of Ctesiphon, complaints were heavy, the suffering was deplorable. As soon as this reached the cars of Lord Hardings, tell and wounded fell tenestables about the soon as this reached the cars of Lord Hardings, sick and wounded fell lamentably short of modern requirements, but the numbers concerned were comparatively small. The evil grew to dreadful proportions with the extension of the operations. It is commonly reported that for the battle of Ctesiphon provision was

Criticism and Action.—The close of were organised; the new divisions were thrown he slege brought to a head the indignation into the fight before their ambulances and then Vierroy, he appointed a small Commission consisting of Sir William Vincent, LCS. Member of Council for Bihar and Oriesa, and General Bingley, to inquire into the position. The Commission was subsequently strengthened by the addition of Mr. J. R. Ridadale, who had made for only five hundred easualties; there were four thousand five hundred. The medical arrangements completely collapsed; wounded were brought down the river on horse boats practically untended; and a mass of preventible suffering and loss of life was caused. In Jan- and in the suffering and loss of life was caused. In Jan- and a suffering and loss of life was caused. In Jan- and a suffering and loss of life was caused. In Jan- and a suffering and loss of life was caused. In Jan- and a suffering a suffering and loss of life was caused. In Jan- and April fighting were far better caused in the content of the season which followed the fail of Kut was caused before the medical arrangements stroke, typhoid. The purpose of arranging for visited India for the purpose of arrangements of the distribution of Red Cross India for the distribu delivered before the medical arrangements stroke, typhoid, para-typhoid, cholera and

The Jerrogers was reported from the relative product to complete the whole to transfer the whole the first plant from the relative manufacture of the first plant from the relative manufacture of the first plant from the

in Joy 1917. If we stee I wall is in the steel that the Advance on Baghdad.—The advance to Sayl Samuelle, it will not steel I wall in the steel toler. Held under the conditions existing in Occasional advance of the steel toler. Held, was an off-neith moschief in Occasional distinction of the steel the upon relitical and military miscalculations and a countries priori Wedge west who are milited to been 1615, was an offensive movement based and yang for the priori distinguished by which his upon relifical and military meaning that it expresses the strength attempted with the dand insufficient forces and first standard set the literature of the Priority and attempted with the dand insufficient forces, and first standard set the literature of the litera Figure in the value in a commission, where the intermedictive around many to some 20,000 men.

India Onice and Indian Government, the former main times and main from ram mi, the former main to the taking Is liev, and the latter the manage ment of the takenther, was, in the circumstance, mare that Is, The 5 creamy of State, who controlled the reliev did not have count. tanos, unworkario. The ker tary of state, who conficiled the policy, did not have count, out the called the falsely of the carty difference out the policy. The indian Government, who manared the expedition, did not accompany divelopments of reflex with the measure received. dividing ments of felley with the measure prebraillons, even when they themselves proposed

The scope of the objective of the expedition The scope of the objective of the cyralitien Cabinet and the Secretary of State for Ind was never sufficiently defined in advance, so as amongst those upon whom responsibility for thought-out and matured plan.

War Committee and the Secretary of State actors

regulate the wants of the exp dition from similar ms an administrative mixture, and mixturetailtes of the Headquarter staff with wide disembarkation to and from Mesopotamia.

presentatives acting as Halson officers, should from time to time laye visited Mesopoiamla with trong time to time may visited accompanion with the weeks of the expedition. In consequence of such want of touch the military consequence of ruch want of touch, the minimal authorities at Simia did not appreciate or realise numerics are summation to appreciate of remove the difficulties of campaigning in Mesopotamic the dimenties of campulguing in accorporation and from such lack of knowledge failed to make and from such facts of knowledge make to make sufficient providing for surmounting the diffi-

The successive advances from Basra to Kuma, Kurn to Amara, and from Amara to Kut were

Eive a full stabilists of the Tribellal group, surender of more than a division of our fines of the Vinesas Empirical and the Casualties incurred in the Individual Constitution of the Wineses Engineering and the Casualties incurred in negligible. The life level, also feeled dother lighting troops and the casualties incurred in the line was endered by the larger and more to some 20.000 men.

The exp dition to Mempatathia was a justic advance. Each and all, in our judgment, according to their relative and marriette mentions The expedition to Meanistania was a just; encounter that any other price of the interference of each a configuration of the investment of expension and development, in the most careful watchurg and independ to which they were parties and watch in the investment of the investment in the investment of the investment in Various authorities and high officials are conneeded with the sanction clive to this unions and

The weightlest share of responsibility lies with Sir John Nixon, whose consident optimism whether main cause of the decision to advance, was the main cause of the accision to advance, The other ferrons a sponsible were in India, the Microy (Lord Hardinge), and the Comstantial Chief (Sir Beauchamp Duff); in Chief (Sir Edmund Parrow), the Secretary of the India (Sir India (Mr. Arrello Chamberlain) and Office (Sir Lamuna Barrow), the Newtary of Edite for India (Mr. Austin (Damberlaja), and the War Continuities of the Cabinet. We put these names in the order and sequence of res-

We have included the War Committee of the

War Committee and the Secretary of State acter upon the opinion of their expert military adviser and that the Secretary of State only gave his assent to the advance after he had received an assurance from the General on the spot that he and an available force sufficient for his purpose. mental administration exists in this country, incitat auministration exists in this country, those who are political licids of departments in time own, whether they be civilian or inflictly, cannot be entirely immune from the

Supplies, Equipments, Reinforcements,—
The general armament and equipment were on a the general armanente and equipment were on a scale intended for an Indian frontier expedition, were not up to the standard of modern European warfare, and were guite insufficient to meet the warrare, and were quite manuscrate to mere the needs of the Mesopotamian Expedition. These Kuma to Amara, and from Amara to kuma, sanctioned as being necessary for the protection and consolidation of positions already taken, and were therefore of a defensive character.

| Some years before the war by the indian government, by which the Amay was to be internal use. shortcomings were the natural result of the policy of indiscriminate retrenchment pursued for some years before the war by the indian GovDuring the period for which the Indian Government were responsible, the commissariat of the expedition cannot be said to have been up to the standard of our Army in France, but here was no general breakdown. In other resentials the expedition was badly and instituted the sufficiently equipped.

As regards reinforcements we find that up to the occupation of Kut in September, 1915, the Mesopotamian Expedition was, in fact, numerically strong enough to cope with the Turkish forces brought against it. The arrangements for drafts and reinforcements had, however, from the first, been lacking in co-ordination as between the Indian and Home authorities, and this want of co-ordination led to the failure to supply effective reinforcements in connection with advance on Baghdad and the operations for the relief of Kut.

Transport.—(a) From the flist the paramount importance, both of river and railway transport in Mesopotamia, was insufficiently realised by the military authorities in India.

- (b) A deficiency of river transport existed from the time the army left tidal water and advanced up-river from Kurna. This deficiency became very serious as the lines of communication lengthened and the numbers of the force increased.
- (c) Up to the end of 1915 the efforts made to rectify the deficiency of river transport were wholly inadequate.
- (d) For want of comprehensive grasp of the transport situation and insufficiency of river steamers we find the military authorities in India are responsible. The responsibility is a grave one.
- (c) River hospital steamers were an urgent requirement for the proper equipment of the expedition, and were not ordered until much too into.
- (f) With General Sir John Nixon tests the responsibility for recommending the advances in 1015 with insufficient transport and equipment. The evidence did not disclose an imperative need to advance without due preparation. For what ensued from shortage of steamers, General Sir John Nixon must, in such circumstances, be held to blame.
- (9) During the first four months of 1916, the shortage of transport was fatal to the operations undertaken for the relief of Kut. Large reinforcements could not be moved to the front in time to take part in critical battles. Based upon information received from General Townshend, as to the urgent necessity for his immediate relief, operation were undertaken, notwithstanding the extreme transport difficulty, but in all the circumstances we do not attach blame for this to the Generals in Mesopotamia directing the operations.
- (h) Facilities for the discharge and handling of cargo at Basm, also provision of works for the erection and repair of river craft, were hopelessly inadequate.

(1) Proceedings in connection with the filling of orders for river craft by the Director of the Royal Indian Marine in India, and the India Office in London, were far from satisfactory.

(j) Looking at the facts, which from the first must have been apparent to any administrator, military or civilian, who gave a few minutes consideration to the map and to the conditions in Mesopotamia, the want of foresight and provision for the most fundamental needs of the expedition reflects discredit upon the organising aptitude of all the authorities concerned.

Medical Provision.—The medical provisions for the Mesopotamia Campaign was from the beginning insufficient; by reason of the continuance of this insufficiency there was a lamentable breakdown in the care of the sick and wounded after the battles of Ctesiphon and after the battles in January, 1916; there was amelioration in March and April, 1916; but that since then the improvement has been continual until it is reasonable to Eope that now the medical provision is satisfactory.

The defects of medical provision caused avoidable suffering to the sick and wounded, and during the breakdown in the winter of 1915-16, this suffering was most lamentably severe.

The deficiencies, which were the main causes of the avoidable suffering of the sick and wounded, were in the provision of the following:—

- (a) River hospital steamers.
- (b) Medical personnel.
- (c) River transport.
- (d) Ambulance land transport.

To these fifth and sixth main causes may be added in respect to the operations in January 1916:—

- (c) The absence of the medical and supply establishments of the 7th Division.
- (f) The premature efforts to relieve Kut in consequence of the erroneous estimate of supplies in that place.

As to personal responsibility the Vincent-Bingley Commission found:—

That a grave responsibility for that part of the suffering which resulted from avoidable circumstances rests with the Senior Medical Officer of the Force, Surgeon-General G. H. Hathaway, and with General Sir John Mixon, the General Officer Commanding the Force, from April 0th, 1915, to January 19th, 1916. General Hathaway did not represent with sufficient promptitude and force the needs of the services for which he was responsible, and in particular failed to urge the necessary for adequate and suitable transport for the sick and wounded with that insistency which the situation demanded. General Nixon did not, is our opinion, appreciate the conditions which would necessarily arise if provision for the sick and wounded of his force were not made on a more liberal scale.

We endorse the finding as regards Surgeon-General Hathaway who in our judgment showed lumself unfit for the high administrative office, which he held.

We may add, however, as regards River and Land Transport, that while it was the duty of Surgeon-General Hathaway to urge its necessity

it was actually the duty of the Quarter-Master! General's Department and of Sir John Nixon's staff to see that it was provided.

So far as Sir John Nixon is concerned, howover, we think that he was throughout solicitous as to the condition of the wounded. The main mistake he made, was to rely too absolutely on the statements made to him by his Deputy-Director of Medical Service, Surgeon-General Hathaway. To that extent he may be blamed, but he stands, so far as responsibility is concerned, in a very different position from that the superior authority of the Viceroy, to give occupied by Surgeon-General Hathaway.

The officer directly responsible for the deficiencies of medical provision in Mosopotamia, is however, the Director of Medical Services, India. This appointment was held at the beginning of the war by Sargeon-General Sir William Babtle, who held the office between March, 1914, and June, 1915, but was away from India for six weeks in February and March, 1915. He was succeeded by Surgeon-General J. G. MacNerce on July 8th, 1915, and the latter proceeded home on sick leave on April 15th, 1916. Sir William Babtie in his evidence before us impressed us as an officer of ability and knowledge, but we do not think that he brought these qualities sufficiently to bear upon the task before him. He accepted obviously insufficient medical provision without protest, and without any adequate effort to improve it. He cannot therefore be held blameless.

Surgeon-General MacNeece did not give ovidence before the Vincent-Bingley Commission but he appeared before us. He was, in our opinion, an officer thoroughly desirous of fulfilling the duties assigned to him; but he was a man of advancing years and diminishing strength, unequal to the position he was called upon to all, and his administration appears to us to show no signs of the vigour and efficiency that were required.

We find that :-

- (a) The Home Covernment agreed with the Indian Government in limiting the general military preparations of India before the war in the interests of retrenchment, and provision was accordingly not made for such an expedition as that to Mesopotamia. The limitation of medical preparation and the low standard of medical treatment in the Indian Army at the outbreak of war were the natural outcome of this policy, which was pursued for many years and was in force right up to the date of the war.
- (b) The private letters of the Secretary of State to the Viceroy showed an earnest and continuous anxiety as to the condition of the wounded, and the only comment that can be made upon the Secretary of State's procedure is that he did not fully utilize the official powers at his disposal for the purpose of forcing at an earlier period an investigation into the treatment of the wounded in Mesopotamia.
- (c) To Lord Hardings of Penshurst, as Viceroy, belongs the general responsibility attaching to of medical services. In regard to the actual conflict with the intentions of Parliament,

medical administration he appears to us to have shown throughout the utmost goodwill, but considering the paramount authority of his office, his action was not sufficiently strenuous and peremptory.

(d) A more severe censure must be passed upon the Commander-in-Chief, for not only did he, as Commander-in-Chief of the Army in India, fail closely to superintend the adequacy of medical provision in Mesopotamia, but he declined for a considerable time, until ultimately forced by credence to rumours with proved to be true, and failed to take the measures, which a subsequent experience shows would have saved the wounded from avoidable suffering.

Criticisms on Indian Government,-The criticisms which it has been our duty to make upon the Government of India divide themselves into two categories :-

Those relating to the error of judgment shown by their advocacy of an advance to Baghdad in October, 1915. In this mistake other authorities participated and we are not disposed to say more on this matter than that, lamentable as were the consequences, the blunder was onewhich is not uncommon in a protracted campaign.

Our second criticisms are of a different chrracter. They relate to the failure adequately to "minister to the wants of the forces employed in Mesopotamia." This failure was persistent and continuous and practically covered the whole of the period during which the Indian Government were entrusted with the management of the expedition. With the knowledge of the facts which we now possess and of the extent and scope of the preparations of the War Office since they undertook the management of the campaign, it is impossible to refrain from serious censure of the Indian Government for the lack of knowledge and foresight shown in the inadequacy of their proparations and for the lack of readiness to recognise and supply deficiencies. They ought to have known, and with proper touch with the expedition they could have known, what were its wants and requirements. It is true that their military system of administration was cumbrous and inept. It was, however, within the power of the Viceroy and the Commander-in-Chief to have established a more effective procedure and a closer touch with the expedition itself.

Recommendations .- We have more than once alluded to the great increase in the number of private telegrams exchanged on official bustness between the Secretary of State for India and the Viceroy. Whether intentionally or not, this method of communication must more or less deprive the Councils of both these high officials of the powers which, under Acts of Parliament, they have in common with the Secretary of State and Viceroy, been given in the government and administration of India. The Secretary of State informed us that he proposed to make some change so as to limit the his position as the head of the Indian Govern-scope and purport of such private communica-ment, to which had been entrusted the manage-tions. Some change is certainly constitutionally ment of the expedition, including the provision required, as the present practice seems to us to

the combination of the duties of Commanler-in-Chief in India and Military Member of Council cannot adequately be performed by any one man in time of war, and that the existing organisations is at once over-centralised at its lead, and cumbrous in its duality below.

We hope that there will be an amalgamation nto one department of the two existing departments of the Commander-in-Chief and the Milltary Member of Council with a single and central registry, and that special efforts will be made to liminish the amount of minute-writing and to implify the present claborate system of clerical thecking and counter-checking.

It is also clear that, so long as Simia remains the Headquarters of the Army Departments. it is essential that in the event of over-ea expeditions, there should be established at the port of embarkation representatives of the Army Departments with wide power to act without reference back to Headquarters.

Medical Reform .- We are of the opinion that :-

- (a) The Director of Medical Services in India. in war-time especially, should have far greater powers, than he at present possesses, to authopresent claborate system of financial check and counter-check, and correspondence with other military departments, before what is wanted can be obtained, has proved from its dilatoriness a real danger in war-time.
- (b) Whenever an expedition is sent over-ca-1 from India, responsible officers should at once power to act.
- (c) At the port of embarkation the embarkation staffs should be responsible for seeing that the equipment and personnel of each medical unit should not be separated in different vessels, but embarked together in the same versel.
- (d) There should be an immediate and general improvement in the whole standard of comfort and accommodation in the hospitals for British troops in India.
- Indian troops, no time should be lost in substituting a Station Hospital system for the present regimental treatment.
- (f) All deficiencies usually allowed to prevail in peace-time in the mobilisation equipment of general hospitals should be made good,
- (g) Base Depots of Medical Stores should be reintroduced into the Indian Field Service organisation, and kept ready for mobilisation.
- (h) At the ontset of every campaign there should be provided a seperate superior sanitary organisation and staff charged with the arrangements for preserving and safeguarding the health of the fighting troops, and responsible to the Principal Medical Officer of the force, but otherwise entirely separate from the organisation for the care of the sick and wounded.

Military Administration.—It is clear that the light of experience in Meropotamia. This especially applies to the rations for Indian troons.

Recoption of the Report.—The publication of the report, with its painful revelations of the breakdown of the milliony machine and the preventible sufferings of the rick and wounded. aroused a tempest of indignation in the United Kingdom. In part this incling was evidently intensified by certain proof of officials callousness; for instance, when Major Carter, I. M. S. called attention to the condition of the wounded from Clesiphon be was threatened with dismissal; when Major-General Cowper demanded better river transport he received the same treatment from the Commander-in-Chief. But in addition to the quite natural and justified indignation caused by the report, its publication was made the occasion for a degrading exhibition of political rancour, in which every political gride; was worked off. At one time the Government proposed to face the storm by the appointment of a special tribunal in order to deal with the cases of the principal offenders; but after Mr. Asquith and Mr. Balfour had protested in disnified and honournific language against the spirit of "witch-hunting" that had been manifested, this scheme was dropped and no special powers, that to as process of the action was taken, the principal authorities, rise expenditure and make purchases, and to action was taken, the ordinary military authorities. action was taken, the principal military offenders Apart from this manifestation of political male volence, the most distinguished episode of the discussion was a speech by Lord Hardings in the House of Lords in justification of his Viceroyality, which had been attacked by the Commission. In the course of this speech, which made a deep impression on the House, Lord Hardinge summarised the assistance which be located at the port of embarkation, with wide | India gave to the Imperial authorities, despite her anxious preoccupations, during the early part of the war. He said :-

Lord Hardingo's Defence.—"In August and the early part of September (1914) an Indian expeditionary force of an Indian army corps of two divisions, under the command of General Sir James Willcocks, and one cavalry division wassent to France, and a second cavairy division was sent to join this force in the following November. But India had a land frontier, needing at all times a watchful eye, and at times such as (e) As regards the medical treatment of those giving cause for special care. To guard that frontier three divisions were immediately mobilised. In September 1914, by the orders of His Majesty's Government, a mixed division of troops was sent to East Africa, the co-operation of India with this force being limited to the supply of personnel, transport, equipment, and ships. In October and November 1014, two divisions of Indian infantry and one brigade of cavalry were sent to Egypt. It was not till the 26th September, by which time eight divisions had already been mobilised and senteither abroad or to the frontier, that the possibility of action at the head of the Persian Gulf was foreshadowed by the Secretary of State, and it was on the 31st October that, Turkey having entered the war against us, hostilities commenced with the seizure by an Indian brigade of the month of the Shatt-el-Arab. This brigade was reinforced (i) The Field Service Ration should receive of Basra on the 23rd November, and in three very careful reconsideration and alteration in months' time increased to an army corps of two to the strength of a division before the capture

history to the ten discovers of intertry, India, and I am groud to say they fully justified and I would be seed two belongers of my dry, imy confidence in them.

Define the discovers discovers and all the From the memorial of the outbreak of war, mainter near sout magnets. But in addition to the memorial the standy policy of the flowers and after it was the standy policy of the flowers and after it was the standy policy of the flowers. The figures of dispress. But it addition to and after, it was the steady policy of the Govern figure of force twenty interfer of artillar members of India to give madify to the Home intry, the figure of the Principal series, prayed force from five Principal series, prayed force from and type, were sent to Principal. A fatishes of India Indianty was also interpreted for the figure of the first was absolutely ready for var in the light of to training, and the form room, and make interpreted with the Tapan, so at the results of the first was absolutely ready for var in the light room buttainess to the first with Compress, and the training of the first was absolutely ready for war in the light room of the first was then necessited as the requirement of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely ready for war in the light room of the first was absolutely room of the first was a represent of the factor of the Japan, so at the control of the control of the factor o Martin Brand.

int pair as in connection with various exwilliens shows in a striking monner the mills ary off ut made by India to assist the Empley,

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			0.	1770
British establishment			F-	CBA.
Regiments, cavalry		4 *	ls.	
Lattallons, regular inf	antry		3.2	4 1
Batteries, Royal Artil	(LL	• •	56	43
adian establichment				
Regiments, cavalry			30	20
Battallous, infantry			138	- 89

"In return for these troops India received, nany mently after the outbrok of nor and the hapatch of Indian divisions on peas, tuentytine Territorial Latteries, and thirty-four Territoial initalions, but these were unfit for immediate raployment on the frontier or in Mesopotamia intil they had been entirely marmed and equip-*d and their training completed. Many of hem were sent later to Mesopotamia, whether is units or drafts for regular regiments, and all lid splendid service. It is, however, a fact that or the space of some weeks before the arrival of the Territorials, the British parrison in India saying this to make any recriminations, for I say reduced to about 15,000 men. The safety recordise the difficulty that existed at home, it India was thus imperified in the interests of but I only wish that your Lordships and the

try post only sent extrems amounted to and more than 550 gues of the latest pattern and type. In the first week of the war some 550 and type. "A complision between the enlinary estable officers of the Army in India, who could ill be believe to the army in India and of the unite spored, were hunded over to the War Office, and nearly 5,000 additional combatant officers have been sent oversias since the war began. would be out of place to give here in detail the enormous quantities of material supplied to the Home Government, such as tents, boots, saddlery, clothing, de., but every effort was made to meet the everinereasing demay da made by the War Office, and it may be stated without exaggration that India was bled absolutely white during the first few weeks of the war. At that time there was no question of an expe-dition to Mesopotamia, and the Government of India's sole procempation was to make every posable eacritice in order to secure a successful prosecution of the war in France. Ther came a moment, after the commencement of operations In Mesopotamia, when India's own needs became pre-sing, and the results of her previous readi-ness to make sacrifiers began to be severely felt. It was then our turn to address repeated and insistent demands to the War Office for troops, drafts, proplanes, machine guns, hombs, de., most of which were either refused or else given with a sparing hand on account of what was held to be the even greater need of our forces in Iranes. It is not my intention in saying this to make any recriminations, for I recognise the difficulty that existed at home, he Empire as a whole. In such a cause I was public should understand the difficulties which saturally prepared to take risks and I took them we in India had to face in meeting the needs confidently because I trusted the people of and demands of the Mesopolamian force."

OCCUPATION OF BAGIIDAD.

be publication of the report had aroused this suret of ignorant spicen in London, the whole ituation in Mesopolanda was transformed by the brilliant series of operations which usualed in the capture of Haghdad and the avalysis for the greater part of a year of curkish power in these regions. When the urrender of Kut-la-Aman cleared the local ituation, and the retirement of Sir Percy Lake rom the local command brought a fresh mind o work in the person of Sir Stanley Maude, whilst the replacement of Sir Beauchamp Duff

Capture of Bughdad.—Portunately before | considered de nore. The Turks, under the inspiration of their German nunters, were known to be considering wide and far-reaching plans. In his despatch on the operations from August 1916 to March 21st 1917, which covered all the operations embraced in the occupation of Baghdad, Sir Stanley Maude Indicated these plans in the following passage:—

"The enemy's plan appeared to be to contain our main forces on the Tigris, whilst a vicorous campaign, which would directly threaten India, was being developed in Persia. There were indications, too, of an impending move down the is Commander-in-chief in India by Sii Charles | Euphrates towards Kasariych. To dissembnate Monro altered entirely the direction of affairs our troops in order to asseguard the various content Army Headquarters, the situation was conditiong interests involved would have relegated Euphrates towards Nasariych. To disseminate our troops in order to safeguard the various conseemed clear from the outset that the true solu-tion of the problem was a resolute offensive, Sannalyat the Sawalkish Marsh and the Marsh with concentrated forces, on the Tigris, thus of Jerson rendered the Turks immune from effectively threatening Bachdad, the centre from attack from the north. which the enemy's columns were operating."

secure possession of the Hal river; secondly, mainstroke was being repared and delivered as to clear the Turkish trench systems still far uest as possible. remaining on the right bank of the Tigris; naminst his communications; and, lastly, to cross defence. the Timis at the weakest part of his line as far west as possible, and so sever his communi-

The Hai positions was selved with little difficulty in the middle of December, but the clearing of the Khadairi Bend, which was und, rtaken on Jan. 6, involved severe hand-to-hand fighting and it was not until Jan. 19, that the enemy, who had suffered leavy losses, was finally driven out.

The Dahra Bend -On January 11th, whilst Lieutenant-General Cobbe was still engaged in clearing up the Khadairi Bend, General Marshall launched the series of op-rations destined to push the Turks out of the Hai Salient and the Dahra Bend. These were not completed until It is impossible to follow these op rations in detail, without more space than is at our disposal; but in summarising them Sir stanks Maude said :-

"Thus terminated a phase of severe fighting, brilliantly carried out. To eject the enemy from this horseshor bend, bristling with trenches and commanded from across the river on three sides by hostile batteries and machine-guns. results were achieved was due to the heroism and determination of the infantry, and to the close and ever-present support nendered by the

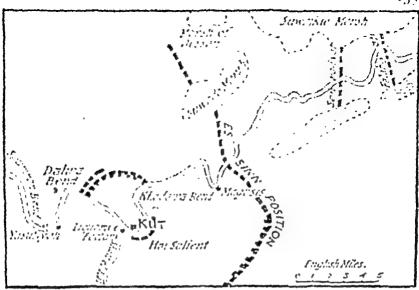
us to a passive defensive anywhere, and it [barred the way on a narrost front to an advance -

On the other hand, we had, by the application Opening Phases.—The period intervening of constant present to the vicinity of shuman, between the full of Rut and the leginning of constant present to the vicinity of shuman, between two one of intense preparation, thousand the communications and stores of all kinds were accumulated, and for the first time in its found to present venerable points, if these existence the Mesonotamian Ferror are promoted could be ascertained. The promote the second and could be ascertained. existence the Mesopotamian Force was properly could be ascertained. The moment then seemed equipped with artillery and aircraft. By the ripe to cross the river and commence conclusions and of December all was ready for the attack, with the enemy on the left bank. To effect this At this time the enemy occupied the same post-it was important that his attention should be tions on the Tigris front which he had held engaged about Sannaiyat and along the river during the summer, and it was decided first to line between Sannaiyat and Kut, while the

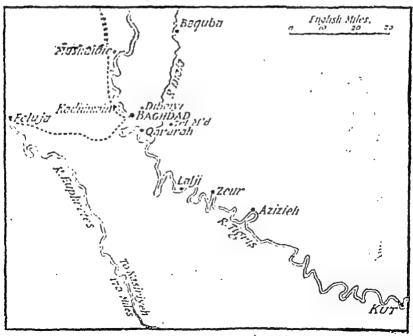
remaining on the right bank of the Thris: Storming of Sannalyat.—We that now to thirdly, to sap the enemy's strength by the third phase of the operations, the storming constant attacks, and give him no rest; fourthly, of the immensely strong positions which the to compel him to give up the Sannalyat position. Turks had prepared at Sannalyat, proceed or in default of that to extend his attenuated by the river on one flank and the impassable forces more and more to counter our strokes marches on the other—an ideal position for

Li-ut.-General Cobbs maintained constant activity along the Saunalyat front, and assoon as the right hanklind been cleared onlers were lested for Sannalyat to be attacked on February, 17. The sodden condition of the ground, consequent on heavy rate during the pa ceding day and night, hampered final preparations, but the first and second lines on a frontage of about 400 yards were captured by a surprise assault with little Before the captus of trenches, however, could be consolidated they were subjected to heavy fire from artillery and trauch mortars, and were strongly counter-attacked by the enemy. The first counter-attack was dispused but the second remined for the enemy his lost Hand Rend. These were not completed until ground, except a the river lank, where a party February 16th, and were marked throughout of Gurkha, maintained themselves until dusk, by hard fighting, in which the Turks lost heavily, and were than withdrawn. The waterformal It is impossible to follow these operations in which the Turks lost heavily. state of the country and a high flood on the Tigris now necessitated a paner, but the time was usefully employed in methodical preparation for the pussage of the Tigris about Shumran.

On February 22, the Scalorths and a Punjable battalion assaulted Sannaiyat, with the same objective as on the 17th. The enemy were amin taken by surprise and our losses were slight. A series of counter-attacks followed. called for offensive qualities of a high standard and the first three were repulsed without diffi-on the part of the troops. That such good culty. The fourth drove back our left but the Punjabis reinforced by an Indian Rifle lettalion and assisted by the fire of the Scaforths, who artillery, whose accurate fire was assisted by right front, re-established their position. Two more counter-attacks which followed were de-The enemy had now, after two months of strenous fighting, been driven entirely from the right bank of the Tigris in the neighbourhood of Knt. He still held, however, a very strong position, defensively, in that it was protected from Sannaiyat to Shumran by the Tigris, which also treated to the north of those already occupied by us. A counter-attack forced our sannaiyat to Shumran by the Tigris, which also treated to the north of those already occupied by us. A counter-attack forced our sannaiyat to Shumran by the Tigris, which also treated to the north of those already occupied by us. Samalyat to Shuman by the Tigris, which also restored by the arrival of reinforcements and by saturated to sound by the Tigris, which also restored by the arrival of reinforcements and or afforded security to his communications running along the left bank of that river. The first two lines of Sannaiyat. The brilliant consistently strengthened for nearly a year, descrives special mention.



Seens of the op rations for the re-capture of Kotsal-Amora.



scene of the operations for the capture of Baghidad.

Feints in connection with the passage of the Tigris were made on the nights of the 22nd and 23rd opposite Kut and at Magasis respectively. Opposite Kut preparations for bridging the Tigris opposite the Liquorice Factory under cover of a bombardment of Kut were made furtively in daylight, and every detail, down to the erecin daylight, and every dearly, was provided for.
The result was, as afterwards ascertained, that
the result was, as afterwards ascertained, that the enemy moved infantry and guns into the Kut peninsula and these could not be retransferred to the actual point of crossing in time to be of any use. The feint at Magasis consisted of a mid across the river made by a detachment of Punjabis assisted by parties of Sappers and Miners and the Sikh Pioneers. This bold raid was successfully carried out with trifling loss and the detachment returned with a captured trench mortar.

The site selected for the passage of the Tigris was at the south end of the Shumran Bend, where the bridge was to be thrown, and three ferrying places were located immediately downstream of this point.

The cavalry, the artillery, division crossed the bridge. and another The cavalry attempted to break throughat the northern end of the Shumran Bend to operate against the enemy's rear along the Baghdad road, by which aeroplanes reported hostile columns to be retreating, but strong Turkish rearguards entrenched in nalas provented them from issuing from the peninsula. During day's fighting at Shumran, heavy During this had been inflicted on the enemy, and our captures had been increased in all to four field guns, eight machine-guns, some 1,650 prisoners, and a large quantity of rifles, ammunition, equipment, and war stores. The gunboats were now ordered up-stream from Falahiyeh, and reached Kut the same evening.

While these events were happening at Shumran, Lieut. General Cobbe cleared the enemy's sixth line at Sannaiyat, the Nakhailat and Suwada positions and the left bank as far as Kut without much opposition.

The capture of the Sannaiyat position, which the Turks believed to be impregnable, had only been accomplished after a flerce struggle, in which our infantry, closely supported by our artillery, displayed great gallantry and endurance against a brave and determined enemy. The latter had again suffered severely. Many trenches were choked with corpses, and the open ground where counter-attacks had taken place was strewn with them.

The Capture of Baghdad.—Official publications nre often remarkable for what they leave out; the despatches relating to these operations are no exception to the rule. There is a widespread belief that the plan of

The Crossing of the Tigris.—This paved the completeness of the Turkish defeat, and the the way for the fourth stage of the rapidity of his retreat, seemed to open operations as planued, the crossing of the the road to Baghdad, and it is understood that Tigris, as far west as possible, which turned the remaining Turkish positions at Sannalyat and opened the road to Eaghdad.

Selzing the position Sir Stanley Maude asked for sanction to advance. This was given and the pursuit was pressed with vigour. On February 25th the cavalry moved north-west in pursuit and coming in contact with the enemy eight miles from Shumran drove him back to his main position two miles farther west. This main position was stormed on the following day, the Royal Navy with its river gunboats, cooperating with effect. Attempts to cut off the retreating Turkish columns failed owing to the retirement and left the road strewn with material of all descriptions. The pursuit was temporarily broken off at Azizich, fifty miles from Kut and half way to Baghdad—the point where General Townshend organised his wak columns for the first advance to Baghdad. It was resumed on March 5th, and pressed, without special incident, except a brilliant charge by th Hussars at Lalji, until the Dialah River was reached. The crossing of this tributary of the Tigris was stubbornly resisted, and was ultimately made good by the heroism of the Loyal North Lancashires. This was the last serious resistance and on March 11th our troops entered the city and the cavalry at once pushed through to take up a position four miles to the north. In relating the notable incidents in our occupation of the city Sir Stanley Maude says :--

"For over a fortaight before we entered Bagh; dad the enemy had bee removing stores and value, and destroying articles of military property which he could not remove, but an immense quantity of booty, part damaged, part undamaged, remained. This included guns, machine-guns, rifles, ammunition, machinery, railway workshops, railway material, rolling-stock, ice and soda water plant, pipes, pumps, cranes, winches, signal and telegraph equipment, and hospital accessories. In the arsenal were found among some cannon of considerable antiquity, all the guns, (rendered useless by General Townshead) which fell into the enemy's hands at the capitulation of Kut in April 1916.

"A brief account is given of the pursuit of the Turks which followed the occupation of the city. On the right bank of the Tigris the retreating enemy had entrenched a strong posttion south of Mushaidie railway station, some twenty miles north of Baghdad. A force under Lieut.-General Cobbe carried this on March 14, after a brilliant charge by the Black Watch and Gurkhas. At Mushaidle Station the enemy made his last stand, but the Black Watch and Gurkhas rushed the station at midnight, and pursued the enemy for half a mile beyond. The enemy's flight was now so rapid that touch was not obtained again, and on March 16 our aeroplanes reported stragglers over a depth of twenty miles, the nearest being twenty-five miles north of Mushaidie.

campaign stopped short at the recovery of the right bank of the Dialah, opposite Baqu. that al-Amara and the covering positions, and did not aim at the occupation of Baghdad. But

March 10 our troops occupied Teluja, thirty-five miles west of Raghdad, on the Euphrates, campaigning until they were driven back into iriving out the Turkish garrison. The occupa-the hills and bottled there. ave miles west of Baghdad, on the Euphrates, iriving out the Turkish garrison. The occupaion of Feluja with Nasariyeh already in our possession, gave us control over the middle Euphrates from both ends. During the remainder of the month minor operations were undertaken on the Dialah, pending the arrival of the Russian forces advancing from Persia. The total number of prisoners taken during the period December 13 to March 31, was 7,021."

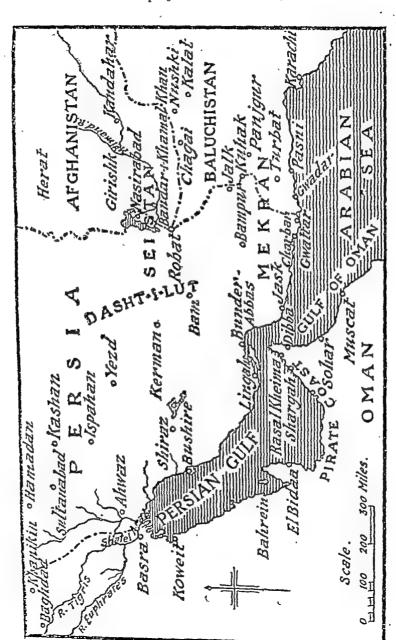
Subsequent Events:—The official despatches stop at this point, but much hard campaigning and heavy fighting followed. With a brief interval to reorganise his forces Sir Stanley Maudo pressed forward on the Baghdad-Samarra railway and by successive stages stormed every Turkish posgestion until Samarra was occupied. That represented the northern limit of the advance. The position at Samarra is a very strong one and forms the natural outwork for the protection of any force in occupation of Baghdad. The hardest fighting was on the right flank. In the earlier narrative of the operations in Mesopotamia, reference is made to the Turkish invasion of Persia. That bulked largely in the enemy's programme. By throwing a Turkish force into that country, and by letting loose the raiders which always swarm in Persia, it was hoped to set the country in a ferment and to establish conditions when the German emissaries who had carefully prepared the ground might seiz control of the country. This was destined to be only a stage towards Afghanistan, and Turkish troops, with German gold, were to have been used to incite the Afghans to take up arms against the Indian Empire. The struggle ebbed and flowed with varying fortune. At one stage the Russians under General Barntoff, using Kasvin as a base, drove the Turks out of one position after another until they reached Kasr-I-Shirin, and the approaches to Khannikin, and promised to join hands with the British forces on the Tigris. A handful of Cossacks actually effected a junction, but the fail of Kut-al-Amara liberated a Turkish Division for operations in Persia, and unable to resist this large force General Baratoff fell back stage by stage, the Turks re-occupying Kermanshah and Hamadan and the Russians retiring to the mountainous country in the direction or Kasvin. The brilliant success of the operations around Knt once more changed the situation. The Turkish Division operating in Persia had to retire, closely followed by the Russians. There was rothing in the nature of a pursuit and little fighting; the Turks fellback in good order to the road which runs

The Campuign of 1817-18:—If the Russians had been in the same fighting form as they were when they stormed Errerum and Erzinghan, the campaign in Asia Minor might have been closed. Never was there a more favourable opportunity for a great combined movement, which would have carried the Russian Armies of the Caucasus to Sivas possibly right across Asia Minor to Alexandretta; the Russian Army of Lake Urumia to Mosul and the Persian Column along the Kifri-Mosul Road. But when the time was most opportune the disorders commenced which during the Revolution have paralysed the Russian armies; the British were left unsupported and the Russian eavairy which joined them on the Khannikhi road were practically destitute of military equipment. The hot weather was a period of rest on both sides; on the British side a season of unusual severity was unitigated by a great improvement in the medical arrangements.

As the Russian confusions developed, the enemy press began to be filled with stories of a great Germano-Turk expedition to recover Baghdad, to be directed by General Falkenhayn. The fact that the Turks had nothing to fear from the Russians lent colour to these stories and it is the general expectation that the cam-paigning season of 1917-18 will be marked by hard fighting in Mesopotamia. Time will show what measure of reality there is in the enemy's boasts; but first blood has fallen to the British.

After an advance on the night of September 27th-28th, we attacked the enemy's advanced position at Mushaid, four miles east of Ramadic carly on the morning of the 28th. Mushald was occupied with little difficulty, and our manocuvred away

the Turkish main m the south-east, while our cavairy moved wide round the westof Ramadio. A severe battle ensued, lasting throughout the 28th, but by nightfall our troops had carried the enemy's main position and were encircling Ramadic from the east, southeast and south at a distance of under two miles from the town. Our cavalry completed the land cordon west of Ramadic, whilst the Euphrates runs along the north side of the town. The enemy during the night attempted to break out westwards, but were headed back by our cavalry. Our troops resumed the attack through Kilri to Mosul on the east of the Jebel vigorously on the 20th at day-break with the Hamran range and the Russians joining result that by 0 a.m., the enemy were surrenhands with the British on the Khannikin dering everywhere. The enemy were taken by whilst the Turkish forces folding the Kut Included 13 guns, 12 machine gans, 600 sector had been badly hammered in the operations which have been described, the Division from Perala reached the battle zone, wearled perhaps, but in no sense demoralised. Manocuvred with some skill, they gave Sir Stanley Mande a good deal of trouble on the Jebel camels.



THE PERSIAN GULF.

The situation in the Persian Gulf, which is arant courier of Germany, threatened the terriat present the corner stone of the Indian frontier tory of the Shekh of Bahrein, who is problem, is one of baffling indefiniteness. In special relations with us, and of the Cour first appearances in these waters was in connection with the long struggle for supremacy which the Portuguese, the French and the Dutch, who had established trading stations there. With the capture and destruction of the great can, when Russian influence at the court of With the capture and destruction of the great course of the Shekh of Bahrein, who is Shekh was used from Teherath and the Portuguese had established at Ormuz, and the supersession of the land to Ormuz, and the supersession of the land toute by the sea route, coupled with the appearance of anarchy in the interior, the importance of the Gulf declined. The Indian Government remained there primarily to preserve tance of the Gulf decimed. The indian Go-bilsh trading rights, and posted consuls, where vernment remained there primarily to preserve there was neither trade nor legitimate interest. The last of these machinations, a German atperformed. Piracy, which was as destructive the ravages of the Barbary corsalrs, was of Shargah, was comparatively recently destamped only, the Trucial Chiefs who occupy the Pirate Coast were gradually brought into close relations with the British Government, of the Persian shore. In short, the situation and the vessels of the Raya Nary have sheet. and the vessels of the Royal Navy have since kept watch and ward in the Gulf, whilst our Consuls have regulated the external affairs of the Arab rulers on the Arablan Coast.

A Policy of Abnegation.

In return for these services Great Britain has claimed no selfish advantages. The waters of the Gulf are as iree to the navigation of other flags as to the Red Ensign. The only territorial possession is the tiny station of Bassidu. Point after point has at one time or another been occupied by British troops. Muhammerah and the lower valley of the Karun valley were occupied during the war with Persian in 1857. Bushire was long held in the same connection, and still bears marks of our regime in the one tolerable road. The Island of Kharak was occupied from 1838 to 1842, and again in 1857. We had a military station at Kals during the Pirate wars, and a military and naval station at Kishm from 1820 to 1870. Jask was occu-pled as a cable station, but subsequently re-turned to Persia. The only surveys of the waters are British; the only cables are British; the few navigation marks are maintained by the British India Company, and two steamship services, a fast mail service and a slow trading service, are run by the same corporation.

Apart from these direct acts, Great Britain might at any time have selzed the whole Arabian Coast and the Persian shore. But in pursuit of a resolute self-denying ordinance she has kept the peace and demanded no reward.

European Intrusions.

Left to herself, Great Britain would desire no other policy. But the affairs of the Persian Gulf have passed into the region of international politics, and the past quarter of a century has witnessed successive chorts to turn the British witnessed successive chorts to turn the interest position. Basing her interference on a treaty which gives her equal rights with Great Britain, France attempted to acquire a coaling station at Jissa, near Maskat, and subsequently obstructed British efforts to stamp out the obstructed and the arms traffic, which was supplying weapons of precision to the tribes on our North-Western Frontier, Turkey, whether acting on her own volition, or as the the Gulf.

has changed from one where the influence of Great Britain was supreme, to one where it is challenged at every point, more especially by the indirect process of commercial strategy; at which a nation, brought up in the traditions of free trade, is handicapped.

The Gulf and the Empire.

With these attacks there has come a closer appreciation of the bearing of the Persian Gulf on the defence of the Indian Empire. The strategic importance of these waters has been laid down by a writer of unchailenged authority and unblassed mind. Writing in the National Review, Admiral Mahan said," Con-cession in the Persian Gulf, whether by formal arrangement (with other Powers) or by neg-lect of the local commercial interests which now underlie political and military control, will imperil Great Britain's naval situation in the Farther East, her political position in India, her commercial interests in both, and the Imperial tie between herself and Australasia." Following this, successive British Go-vernments have made declarations of policy which are satisfactory, as far as words can go. Speaking in the House of Lords on May 5, 1603, Lord Lansdowne, then Secretary of State for Foreign Afiairs, said "We (i.e., His Ma-jesty's Government) should regard the esta-blishment of a naval base or of a fortified port in the Persian Gulf by any other Power as a very grave menace to British interests which wery grave menace to Dritish interests when we should certainly resist with all the menus at our disposal." This declaration of policy has since been endorsed by Sir Edward Grey, But the question which arises is whether, in view of the intrusion of foreign Powers with aggressive designs, and the changing condi-tions on the littoral, the purely ne-gative policy which has hitherto satisfied Great Britain will sumee. It is a hard fact but a true one, that if British authority disappeared to-morrow, it would leave no other relic than the Abadan oil refinery; a few consular build-ings and the tradition of justice and fair dealing. That is a question which can best be considered after a brief survey of the various jurisdictions which are established in

were norit to rile down to Matra, the centre was the entrept for this trade, but the exactly of the date trade, and threaten forack the town. How of the Belgian Customs officials in the amount of Bornia has driven this frame from of the date trade, and threaten to sack the town.

The late Sultan, who died in 1913, was generally compiled to below them to so away. The sulfate which began in 1913 was a more serious the intand town of Semail, which stands in a Bebal, Abu Thabee, Shargah, Alman, Um-al-Comp lied to bribe them to go away. The relief which began in 1913 was a more serious than intended to the relief was a more serious that intended to a standard which seried to a standard to a standard which standard to the inland town of Semall, which stands in a spacion, fertile valley where are grown most of spacous territic valley where are grown most of the dates for which Mackat is famous. Great North of the Pirate Coast lies the little Archience cardons documents the chief of which to define forms the chieffilip of the Shelking of Indirect. Of this crown of Islands only those liritain has special intensic at Mackat, based upon various documents, the chief of which is of Hahrein. Of this group of islands only those said we would protect his capital and coasts, the chief of into the importance is out of any size, but found not send an expedition into the importance is out of all proportion to fulfant troops to Maskat, and they have been there ever since. It is quite probable that the terior against the energy.

Indian troops to Maskat, and they have been there ever since. It is quite probable that the tide ships have to lie four miles from the tribsment were excited by the news of the shore, which is not even approachable by boals, one and passengers, mails and cargo have to be famous. But this notwithstanding the trade direct War, and determined to push their own operations more vigorously. The rising cutminated in an attack on the outposts of Maskat minace in an accase of the output of manage on the 10th and 11th January 1916, Detachinents of the 05th Infantry and the 102nd ments of the voin infants and the found Grenaliers had previously been sent to support the Saltan's forces and the attack was driven the Saltan's forces and the attack was driven back, the rebel casualties amounting to 300 men. There were no further attacks, and the rebels were morard to be creatly disheartened.

British Consul, Major L. B. H. Haworth.

Agency Surgeon, Vacant.

The Pirate Coast.

Turning Capo Musandim and entering the Juli Proper, we pass the Pirato Coast, controlled by the six Trucial Chicks. The Illinary meaning, but in the early days it had a The pirates were the boldest of their kind, and The pirates were the boldest of their kind, and The pirates were the boldest of their kind, and they did not hesitate to attack on occasion, and not always without success, the Company's ships of war. Large expeditions were fitted that since 1820 no considerable puntitive that since 1820 no considerable puntitive measures have been necessary. The Truckat fit is a proper to the success that the success chiefs are bound to Great Britain by a series of engagements, beginning with 1800 and ending with the perpetual treaty of 1853 by which at sea, and the subsequent treaty of 1873 by they bound themselves to avoid all hostilities at sea, and the subsequent treaty of 1873 by which they undertook to prohibit altogether that the traffic in slaves. The relations of the Truckel Chiefs are controlled by the British Resivery year on a tour of inspection. The German attempt to obtain a concession from the Sheikh strempt to obtain a concession from the Sheikh of Shargarh has been mentioned. A more orious question arose in 1912 when a landing and arms at Debai, was fired at by the residual for some orious question mentioned and arms at Debai, was fired at by the residual for some of the sheikh men killed and nine wound citish Resident, and submitted to a fine crowns at first the suspicion that the sheekh mention of the strength of the strength of the spread of pan-lalamism on the statist at indicated a weakening respect for that it indicated a weakening respect for the show that it arose from an unfortunate timportance of the Pirate Coast is increasing ttempt to obtain a concession from the Sheikh

North of the Pirate Coast lies the little Archianchoming is wretched, and at certain states of the tide ships have to lie four miles from the of the port is valued at over a million and a quarter sterling, and the customs revenue, which amounts to some cighty thousand pounds makes the Sheikh the richest ruler in the Guil.

makes the Sheikh the richest ruler in the Guit.

Baltrein lias passed through more than issually chequered experiences. Not the least to threaten its independence. These took definite form in the third quarter of the last eccupied the promontory of El Kater, as well as El Hasa into a district. The war with Russia put an end to these designs, but they were put an end to these designs, but they were revived and the Turks at El Kater are still a menace to Bahrein, but negotiations for their withdrawal are pending. The Sheikh by the treaty of 1861, entered into special engagements with the British Government, by whom his rights are guaranteed.

rights are guaranteed.
In the neighbourhood of Bahrein is the vast burying ground which has hitherto baffled archivologists. The generally accepted theory are known to have traded in these waters. are known to have traded in these waters. Political Agent, Capt. P. G. Loch.

Kowelt.

In the north-west corner of the Gulf lies the port which has made more stir than any place of similar size in the world. The importance of Kowelt lies solely in the fact that it is the results of the possible Gulf terminus of the Baghdad Radiway. This is no new discovery for when One Possible Guit terminus of the Baghdad Railway. This is no new discovery, for when the Euphrates Valley Railway was under discussion, General Chesney selected it under the customative name of the Grand-so called from the reasonable of the formation of the Ray to the resemblance of the formation of the Bay to A pair of horns—as the sea terminus of the line.

Nowhere else would Koweit be called a good
or a promising port. The Bay is 20 miles deep or a promising port. The Day is 20 mines deep and 5 miles broad, but so shallow that heavy expense would have to be incurred to render it penso would have to be intented to reduce resultable for modern occan-going steamers. It is shelter from all but the westerly winds, and the clean thriving town is peopled by some of misunderstandings. The commer-importance of the Pirate Coast is increasing ugh the rise of Debai. Formerly Lingari the ingenuity of the international jurist to and the cream party colors to proper by some 20,000 inhabitants, chiefly dependent on the sea, for the mariners of knowlt are noted for their boldness and hardlhood.

for that of Lyslan. But the guchance is 1903 a limit Exploitation Company was formed which lead of all dappenss; the tend to bildrat as a preliminary with a capital of £600,000, of the central tableland is of-ened, the commercial value of Bushire will dwindle to indicate. Further south the Lincah, reputed to be the Pretties port on the Persian coast, holding of this Exploitation Company was allotted to the following the pretties port on the Persian coast, holding of this Exploitation Company was al Yead. It is of still more importance as a subject naval base. To the west of the town the Island of Kishm and the mailand, the Chrence Straits which parrow until they the Cintener Straits which narrow until they are less than three miles in width, and yet constant abundance of water. Here, according to sound naval spinlon, there is the possibility of Grif. The coast obstacle is the eliminar which is creating a naval base which would command the Gulf. The great obstacle is the climate, which is one of the worst in the world. On the opposite shore, under the shadow of Cape Musandim. Explainstone's Inlet, where the climate continuous are equally vile. But between these two points there is the possibility of controlling the Gulf fust as Gibraltar controls the Media. the Gulf just as Gibraltar controls the Medithe Gull just as Gibraltar controls the Medi-terranean. For many years Bunder Abbas leomed large in public discussions as the pos-tible warm water port for which Russia was recking. Now it has reappeared in connection seeding. Now it has reappeared in connection food that the British Admiralty insist on that line meeting the sea at Bunder Abbas, where it would enter the British Zone, and whence, the Court of Indian Control of Indian Cont would enter the British zone, and whence, along the Coast of Mekrap, it would be commanded from the sea. The Russian concessionaires wish the line to strike the sea much cessionaires wish the line to believe the sea much farther east either at the actual British from ther, Gwetter, or at Chahbar, where there are believed to be the makings of a deep-water port. Eo far the project has not passed beyond port. So far the project has not passed beyond the stage of academic discussion. (q. v. Rallways to India). On the Mekran and the possible port of Chahbar. The British Government temporarily occupied mathematical in communications. Bushire in 1916 in circumstances narmied in Persia (q, v.)

The Admiralty Oil Contract.

A further complexity was introduced into the position in Southern Persia, and inferentially into Gulf politics when the British Government, on behalf of the British Admiralty, entered into partnership with the Angio-Persian Oil Company for the development of their air Oll Company for the development of their oil fields in the neighbourhood of Maidan-I-

The Concession. The concession which the ompany was formed in 1900 to work was origi-

frame. Further with like Lingah, reputed to be the Pretian Company was started in 1000 the actual but its trade is being diverted to Behal on the Right of this Exploitation Company was farmed in the narrow channel which farms the catenace to the Guif from the Amilian Sea is Bunder Abhas. Here we are at the labelian field in territory belonging to the Bakhtlari Khans. Under the terms of a senarate acreement the latter received 3 ner a separate accoment the latter received 3 per cent, of the shared in any company formed to work oil in their country; and a second subst-Bakhitari Oli Company, was then created, known as the \$600,000, in order to cover the area within their lirst Exploitation Company. In the First Tixploitation Company, in the First Ixploitation Company the Angio-Persian Company the Capital and Persian shareholders 163,140 of the Capital, and Persian shareholders 163,140 on 1941 the Habitation Company of the capital, and Persian shareholders £65,540 or 12:05 per cent.; in the Hakhitari Company the Angle Persian Company owns £388,000, or a royalty of 16 per cent. On the net yearly and the Hakhitari tribes are interested in the neconcepts of the company 18 recarded as an and the publicati titles are interested in the prosperity of the company is regarded as an important factor in securing its position in a country otherwise rather unruly,

The Fields.—Oil has so far been found in The Fields.—Oil has so far been found in quantity at Maidan-l-Naphrun, at depths of 1,200 ft. to 1,200 ft., in hard porous limestone, and has been proved at Kasr-l-Shirin; surface thought of, have also been baserved at White Kuh Chainpa, and other places. The present production of the company is obtained entirely Kuh Champa, and other places. The present production of the company is obtained entirely from the Malda-f-Naphtun area, where 30 wells have been drilled; it ites 140 miles N-V.E. of Shatt-al-Amb and Farun rivera. The oil i conveyed 150 miles by pipe-line to the refiner ported to the field by river and across a dimenl. ported to the field by river and across a difficult country by mules. The workings are entirely made the charge of British subjects; the skilled labour is mainly recruited from India, and the unskilled labourers are largely Persians, no difficulty having been experienced in securing an adequate supply. The Bakhtari Khans the police, the fled works and upper sections of the pipe-line, and an agreement has been made with the Sheikh of Muhammersh for the protection of the refinery and the lower section. tection of the refinery and the lower section.

The Contract—Under the agreement the Government are to subscribe for £2,000,000 in ordinary shares of the company, £1,000 in in ordinary shares of the company, £1,000 in preference shares, and £199,000 in debentures, which will bring the aggregate capital in shares and debentures to £4,709,000. The existing £909,000 so that under the new arrangement the Government will hold the preponderating company was formed in 1900 to work was originally obtained in 1901 from the Persian Government by Mr. W. K. D'Arcy. It cranted the duce, pipe, and carry away oil and persolutes throughout the Persian Betroleum persolutis throughout the Persian Betroleum Azeudaran, Adrabad, and Khorazean, The Admiralty will obtain the oil fixed is kept.

Addresses Men and the first of the first of the books price being instituted to the east state of the first price in the first the finish therefore the interfer county, being present Galf for consider the coope, but for the first of the first the first of Galf for consider the force of the first of the first of Galf for consider the first of the first of Galf for the first of The control was in the account was well to control to the property of the body that it exceeds the little of the form of the account the little of the parties of the Account the little for the form of the form Partied Reflect to the Period G. H. to the regularisation of the whole situation. Est Perry Con. E.C.E.E. C.E.E. (in more than one organism it was announced that they were on the verge of completion. If at the Barbids-I railway should be recompleted. If at the Barbids-I railway should proceed as a Barbids-I railway should proceed as Foldert Resident to the Person G. H. to the translational descriments with a view for Person Cons. E. C. F. derive the war trove out, active accommon the property the weet the Billion, the Turkish and the German Governments with a view

for as lines as a purely forman-Turkich enter-

Residency Survey at Dusties, Major J. His as Bassa as a purely German-Turkith enter-Sixty without the should not proved by one Prince of Prince and Assistant to see directors on the Board to mand arminst differ-

Comme at Europe allies and district to its directors on the Board to grand arminet two entiation of fates. The Shelkh of Kowell was

Coefficient of Europe Alloward American in the Standard and Summary.

Summary.

From this little summary of the Combines to the Compiler of the Surrainty of Turker was not to promite the Street with and Turker was such to exclusive for the Surrainty of Turker was we have sought and the patients before the Street the treaty of 1500. The Turker was the Layer of the surrainty of the training of the surrainty of the Street the treaty of 1500. The Turker was the Layer of the surraint acts of velicit to the surraint acts of velicit was to be allowed the surraints and the surraint survaints and the surraint survaint and the surraints of the surraints illions are fast changing nor was it in any foring on Russian ships and bombarding Russian the Limit. On the contrary, by that instrument country. The progress of this force is opening pages of this

PERSIA.

Provising Gull has been allowed to obscure the military operations; it is also midway atturned frontier importance of Faction. Yet it has the track of the shortest line which could be tween the military operations; it is also midway atturned the provided and the street of the shortest line which could be tween the provided and the shortest line which could be the shortest line which could be and of our indian Empire frontiers of Perlia at Gwatton the Trans-Caspian most at Gwatton to make the frontiers of Perlia be strong with Alghanitan and most at the shortest line which the shortest line which the strong the strong the strong that the strong the strong the strong that the strong that

Angle-Russian Agreement.

Whether with this purpose or not. Russian intrigue was particularly active in Selstan in the early years of the century. Having Russis fled Khorassan; her agents moved into Selstan, and through the agency of the Belgian Customs "relentific missions" and an irriofficials, tating plague corden, sought to establish in-fluence, and to stiffe the British trade which nucree, and to stille the British trade which was gradually being built up by way of Nushtl. These efforts died down before the presence of the McMahon mission, which, in pursuance of Treaty rights, was demarcating the boundary between Persia and Afchanistan, with special reference to the distribution of the waters of the Helmand. They finally cased with the conclusion of the Angla-Pusies. Persian route, which would take a direct line determining its nature, and avoiding any action through Teheran from Baku, and meet the in contravention of the principles of the Con-Arabian Sea at Bunder Abbas or Chabbar.

The natural conditions which give to Schan this strategic importance persist. Meantime British influence is being consolidated through the Selstan trade route. The distance from Quetta to the Seistan border at Killa Robat is 405 miles, most of it dead level, and it has now been provided with fortified posts, dak of that it did not deny the special interests of bungalows, wells, and all facilities for caravan traffic. The railway has been pushed out that Great Britain in the Guil; and it was intimated traffic. traffic. The rallway has been pushed out from Spezand, on the Bolan Railway to Nucliki, so as to provide a better starting point for the

be extended into Selitan.

settlement of all questions likely to disturb the friendly relations of the two countries in Asia generally, and in Persia, Afghanistan and Tibet in particular, was signed on August 31st, 1907, and officially communicated to the Powers in St. Petersburg on September 21. After reciting the desire of both Governments to maintain the integrity of Persia, and to allow all nations equal facilities for trade in that country, the Convention states that in certain parts, owing to their geographical proximity to their own territories, Great Britain and Russia have special interests. Accordingly (Art. I.): To the north of a line drawn from Kasr-I-Shirin, Islahan, Yezd and Khakh to the junction of the Fernian, Russian and Afghanistan frontiers, Great Britain agrees not to seek for itself or itself or itself or its own subjects or those of any other country any political or commercial concessions, such as railway, banking, telegraph, roads, transport or insurance, or to oppose the acquisition of the structure of the structure of such concessions by the Itussian Government of the structure of Russian and Afghanistan frontlers,

or its subjects. II, limits gives a rimite undertaking concerning the region to the south of a line extending from the Afghan frontier to Gazik, Birjand, Kerman and Bandar Abbat, HI, Russla and Great Erliah agree not to oppose, without previous agreement, the granting of concessions to subjects of either country in the regions rituated between the lines above mentioned. All existing concessions in the tegions above designated are maintained. IV. The armagements by which certain Persian revenues were pledged for the payment of the loans contracted by the Shab's Government with the Persian Langue d'Ercompte and de Prets and the Imperial Bank of Perila before ceased with the conclusion of the Anglo-Russian V. In the event of any irregulables in the Agreement, Since then the international importance of Selstan has waned. Whether on account of the Agreement, which hars the line situated within the range defined by Article I. of advance through Selstan, or because of the the signing of the Convention are maintaingle discovery of an easier route, we cannot describe and Great Britain may do the same in the room of advance through Scistan, or because of the and Great Britain may do the same in the room discovery of an easier route, we cannot describe by Article II. But before instituting termine, but Russian activities in fallway construction have been diverted to the Transa friendly exchange of ideas with a view to struction have been diverted to the Transa friendly exchange of ideas with a view to

> With the Convention a letter was published from Sir E. Grey to the British Ambas sador at St. Petersburg announcing that the Per-lan Gulf lay outside its reope, but that the Russian Government had stated during the negotiations

Choos in Persio.

Throughout Pers 14 comvans than Quetta. This rallway is now to have been extremely unsatisfactory. On the Owing to the activities of certain Germans assured the British Government of its neutrality and other enemy subjects in Persia during the and expressed the hope that the territory of latter half of 1015, it was found necessary to and expressed the hope that the territory of latter half of 1015, it was found necessary to and expressed the hope that the territory of latter gathen our outposts on the borders of illets. Nevertheless roving hands of Germans Selstan. The troops under the command of and Austrians, armed with rifes and machine Licutenant-Colonel J. M. Wikeley, 28th Light cuns, wandered through the country, trying Cavalry, have successfully carried out their to stir up trouble, and as was the case with orders and co-operated effectively with the Turkey provoke Persia to take hostile action Cavary, nave successing carried out their to stir up trouble, and as was the case with orders and co-operated effectively with the Turkey, provoke Persia to take hostile action.

Text of the Agreement.

This Agreement, which aimed at an amicable was fired at and elightly grazed by a bullet was fired at and elightly grazed by a bullet. while his Indian orderly was killed. seriou trouble occurred in the South, at Bushire.
On July 12th the presence of instile tribermen
in the vicinity of the town was reported at the Residency. Major Oliphant, of the poth Regiment, and Captain Ranking, Assistant Political Officer, with a mixed patrol of infautry and sowars, went out to reconnoitre. returning the patrol was ambushed and came under a hot fire from a well-concealed enemy. Both British officers were killed, with one sepoy, and two were wounded. The tribesmen afterwards disappeared. In August the state of lawlessness prevailing amongst the tribesmen of the hinterland and the danger to the lives and

bought up and we drove the enemy at the were detained but well-freated. brought up and we drove the enemy at the very detained but well-treated. The British cast of the island where they had collected, and there handed over to the British and the Game was the fugitives, they under fire two of the island kept them under fire for two of the island kept them mainland. Our casualties across the flat casualties were sent under escent under sect to Bushire of the Swedish-officered gendameric in defance and their deep regret and promised puring the second year of the war events. marshy plain lying between the island and the mainland. Our casualties were:—Killed Major Pennington, 12th Gavalry, attached 16th Gavalry, attached 16th Cavalry, attached 16th Cavalry. Thornton, I.A.R., attached 16th Cavalry. Wounded:—2nd-Infantry. Robinson, I.A.R., which was competed and flowed. A strong Russian of restoring the Shah's authority over a large puts, Lieutenant Laville, 11th Rajouts, Marching from Kasvin to expelled the formans and their herogeneous following Kum and turning westwards drove them from Licutenant Staples, 11th Rajputs.

tatives had accorded to him.

Towards the close of 1915, matters were brought to a head. The British and Russian Ambassadors were received by the Shah, who Countries, During the was a friend of the two Germans had done their utmost to drive Persia to war with Russia. Prince Eyn-ud-Daule and to the relief of Kut-al-Amara and the occupation alnous region, had been expelled near the the Baghdad Force. Sir Percy Sykes, with his tanch, a former Governor-General of Souther all condition on Persia continued however to the Shiraz. The general of the Shiraz. The general of the Shiraz. The general of the Shiraz continued however to succeed the shirage of the Shiraz continued however to succeed and prince Masmartel.

Later an anti-British affray was reported frem Government of India in Ehoragan:—Licut. tim with an adviser irreduly to the Enterier.

Later an anti-British affray was reported from
Shiraz. On November 10th the British Consul. the manager of the Imperial Bank of Persia, and ther male British subjects were seized and sent southwards to tribal territory, where they

to ensure the security of British interests and the maintenance of order, the British merests and the comments, the British occupation, in a British launch or Detober 16th. The maintain on the road to Euchdad, and at British and was received at Bushir of Mainistrator and Senior Naval officers with of Friendler or their staffs who conducted him to the flagstaff of relieve Kut-al-Amara of the operation where a guard of honour was drawn up to the flagstaff of reservice cleared two Turkish Divisions tatives had accorded to him.

The Russians also seized Kasr-i-Shir in the Rusnikin on the road to Euchdad, and at with the British forces bettien to co-operate with the British forces in the advance of Administrator and Senior Naval officers with of relieve Kut-al-Amara of the operation for the reception, which the British forces released two Turkish Divisions tatives had accorded to him.

Towards the close of 1915, matters were met with sharp defeat, in Eastern Persia and the Ritish-officered forces of fording under the relief of Ritish-officered forces of fording under the formal and the madan. An effort to Rritish-officered force of fording under the relief of Rritish-officered forces of fording under the residual property forces and the surrender for the reception, which the British and British officered forces of fording under the relief of Rritish-officered forces of fording under the relief of Rritish-officered forces of fording under the residual property and the relief of the The Persian Government having taken steps to ensure the security of British interests and the The Russians also seized Karr-i-Shirin and Khannikin on the road to Russians and at Lun and turning westwards drove them from Kermanshah and Hamadan over the frontier,

Dermans and done their utmost to drive Persia. The complete success of the operations leading after with Russia. Prince Eyn-ud-Daule and to the relief of Kut-al-Amara and the occupation are Russially of Raphdad produced the realistic parties of the relief of Raphdad produced the realistic of the resistance of the res lato war with Russia. Prince Eyn-ud-Daule and Frince Firman Firms, who are Russophils, of Bachdad rendered the position of the Cabinet; the German, Austrian and In Persia untenable. They retired down the Marks and German and the occupation of the Turks and German and the force of rebels, under the turning north up the Russians and the mount least high frontier by Russians. Muhkberel-Sul-gendament, march for Percy Sykes, with his rai condition of Persia continued however to

H. B. M.'s Consul in Sittan and Kain:-Lt. Col.

Medical Officer and Vice-Consul:-Major Heron, L.M.S.

There yet remains a small part of British policy for nearly half a century.

India where the King's writ does not run. This is a country of deep valleys and seclude with the Amir of Afghanistan, the boundary inaccessible mountains. It is peopled with Under what is called the Durand Agreement with the Amir of Afghanistan, the boundary inaccessible mountains. It is peopled with almost and it was delimited in 1903. But the Govern again. Tartar, Turkoman, Persian, Indian, the border, Between the administered up to Arab and Jewish intermingle, and the Durand inc there lies a belt of intercourse even amonest themselves, with little and as a called the control of varying widths, extending from Sir Valentine Chirol truly said "the only bond as a called the Durand and Agreement plants in the proposal intermingle." tory and the Durand ine there lies a belt of intercourse even amongst themselves, and as territory of varying widths, extending from Sir Valentine Chirol truly raid "the court, to Kashmir in that ever could unlie them in the only bond Independent Territory. Its future is the key-understand the Frontier problem unless two note of the interminable discussions of frontier facts are steadily borne in mind. The strong-

Map of the North-Western Prontiers. 152 Jalalabad Ŷ NINGIRAHAR SHINWARIS L AliHosjid Peiwar Kolal AFRIDIS K Z KHOSTWA I C Ŀ, K MARWATS DISTRICT CWAZIRISTAN (WANO) Dera Ismail Khan SHERANI COUNTRY

est tentiment amongst these strange people officered by a handful of British officers, is the desire to be left alone. They value their most successful of these is the Khyber I independence much more than their lives, which have steadlastly kept the peace of The other factor is that the country does not runce oven in good years to maintain the population. They must flud the means of subsistence outside, either in trade, by service in the Indian Army or in the Frontier Militia; or else in the outlet which hill-men all the world over have utilised from time immemorial, the raiding of the wealthier and more peaceful population of the Plains.

Frontier Policy.

The policy of the Government of India toward the Independent Territory has ebbed and flowed in a remarkable degree. It has fluctuated between the Forward School, which would occupy the frontier up to the confines of Afghanizan, and the school of Masterly Inactivity, which would leave the tribesmeen entirely to their own resources, punishing them only when they raided British territory. Behind both the policles lay the menace of a Russian invasion, and that coloured our frontier policy until the Anglo-Russian Agreement. This induced what was called Hit and Retter ward the Independent Territory has ebbed This induced what was called Hit and Retire tactics; in the half century which ended in 1897 there were nearly a score of punitive expeditions, each one of which left behind a legacy of distrust, and which brought no permanent improvement in its train. The fruit of the suspicion thus engendered was seen in 1807. Then the whole Frontier, from the Malakand to the Gomal, was ablaze. The ex-tent of this rising and the magnitude of the military measures which were taken to meet it compelled a consideration of the whole position. The broad outlines of the new polley were laid down in a despatch from the Secre-tary of State for India, which prescribed for the Government the "limitation of your interference with the tribes, so as to avoid the extension of administrative control over tribal tension of administrative control over tribal tension of Itell to Lord Curron to give effect to this policy. The main foundations of his action were to exercise over the tribes the political influence requisite to secure our imperial interests, to pay them subsidies for the performance of specific duties, but to res-pect their tribal independence and leave them, as far as possible, free to govern themselves according to their own traditions and to follow their own inherited habits of life without let or hindrance.

New Province.

As a first step Lord Curzon took the ntrol of the tribes under the direct supervision of the Government of India. Up to this point they had been in charge of the Government of the Punjab, a province whose head is busied with many other concerns. Lord Curzon created in 1901, the North-West Forester Purples and 1901, the North-West Lord Curzon created in 1901, the North-West
Frontier Province, and placed it in charge by critics to condemn the present policy. They
of a Chief Commissioner with an intimate
of a Chief Commissioner with an intimate
to the Government of India. This was a revival
turbed area was localised, the Khyber was
of a scheme prepared by Lord Lytton in 1877,
kept open, the Afridis lent their aid in concludand often considered afterwards, but which
ling peace. For these reasons, when the Govhad slipped for lack of driving power. Next
Lord Curzon withdrew the regular troops so
for further strategical points in order to control
far as possible from the advanced posts, and
the Zakka Khels, the Secretary of State wisely
placed these fortalices in charge of tribal levies,
imposed his embargo. The strength of the

most successful of these is the Khyber Rifles; which have steadfastly kept the peace of that historic Pass. At the same time the regular troops were cautoned in places whence they could quickly move to any danger point, and these bases were connected with the Indian Railway system. In pursuance of this policy frontier railways were run out to Dargal, and a narrow-gauge line, since converted to the brond-gauge, was constructed from Kushal-garh to Kohat at the entrance of the Kohat Pass, and to That at the mouth of the Kurram Valley. These railways are being completed by lines to Tonk and Bannu. By this means the striking power of the regular forces was greatly increased. Nor was the policy of economic development neglected, The railways gave a powerful stimulus to trade, and the Lower Swat Canal converted fracthou tribesmen into successful agriculturists.
This policy of economic development is receiving a great development through the completion of the Upper Swat Canal (q. v. Irrigation). Now it is completed there are other works awaiting attention.

Greater Peace.

So far this policy has been completely justified by results. During Lord Curzon's Viceroyalty there was no frontier expedition. The recalcitrancy of the Mahsud Waziris necessitated punitive measures, but they took the form of a blockade. Critics have declared that the blockade was scarcely distinguishablefrom an expedition, but that is a secondary matter. It was not until 1908 that the peace of the border was directly disturbed, and then the continued recalcitrancy or the Eakka Khel sept of the great Afridi tribe compelled the Government to take action. General Wills. cocks, moving swittly down the Chura Pass. cocks, moving swilly down the Chura Pass, and Colonel Roos-Keppel taking the Khyber Riffes down the Bazar Valley inflicted such condign punishment on them that they were glad to accept terms of peace negotiated by the main Afridi tribe. A month later, action was necessary against the Mohmands. In this case the rebellious tribesmen were actively supported by Advan lating assembled and supported by Afghan levies, assembled and fitted out in Afghan territory at Lalpura. Two brigades entered their country and defeated them. There was a diversion when lashkars numbering nearly twenty thousand moved up from Afghanistan and threatened the Bri-tish post of Landi Kotal in the Khyber. They too were driven back into Aighan territory, and the trouble was at an end. The Amir, who had been strangely quiescent, asserted his authority and the irregular warfare waged from Afghan territory ceased.

Policy Justilled.

These expeditions have been selzed upon

position was still further demonstrated when in 1910 the tribesmen suffered heavy losses in consequence of measures to suppress the arms traffic (q. v. Gun-running). The frontier is always in a state of suppressed ferment. No one knows what will happen to-morrow. But the tribesmen, feeling confident in the knowledge that no attack on their independence is contemplated and growing richer in consequence of the development of trade and agriculture, are more easily handled. With the removal of the Russian menace, or rather its transference to Persia, the importance of the North-West Frontier has tended to subside. There are still heard mutterings of the necessity for a reversion to the forward policy, and for the occupation of the Independent Territory right up to the Durand line. But they are not regarded seriously. The tribesmen are so saturated with rifles and ammunition, as the result of importations from the Persian Guif, that the task would be long and costly. When it was achieved the frontier problem would only have shifted. Instead of a frontier against the Independent tribesmen. India would have a frontier against Afghanistan, and the problem would still be present, only in an aggravated form.

The Frontier and the War.

The history of the Independent Territory during the year was one of unrest, though this was local and sporadio, and did not take the form of a concerted disturbance, such as that which embarrassed the Government of India in 1897.

During October and November 1914, various reports were received that attempts were being made to stir up fanaticism along the Frontier. At the end of November 1914, certain influential muliahs in Independent Territory led a Khostwal lashkar of some 2,000 men to the neighbourhood of Miranshah in the Tochi Vailey. On November 29th, a portion of the North Waziristan Militia under Major G. B. Scott, attacked the enemy and, in a skilfully fought action, inflicted a severe defeat on the tribesmen who fied in a demoralised condition. The prompt and vigorous action of the North Waziristan Militia checked what might have been a serious rising.

On January 7th, 1915, operations were carried out by the Bannu Moveable Column and a portion of the North Waziristan Militia with a view to defeating a large Khostwal lashkar that had crossed into British territory and attacked Spina Khaisora post. Of the British forces, only the North Waziristan Militia were actually engaged with the enemy losing some 50-60 men killed and being driven in confusion over the frontier. On March 26th, 1915, the Bannu Moveable Column together with a portion of the North Waziristan Militia moved out from Miran Shah and attacked a large Khostwal lashkar, estimated at 7,000 to 8,000 men, which was threatening that place. The attack was entirely successful. The enemy's losses were estimated at 200 killed and 300 wounded and they retreated rapidly across the frontler.

With the exception of raiding, this portion of the frontier remained quiet until October 1015, when unrest among the Minhsuds necessitated precautions being taken in the Derajat Brigade area. A militia piquet was attacked on November 12th and on the 18th a detachment of the 45th Rattray's Sikhs on piquetting duty near Khajuri Kach in the Gomal was fired upon by some 80-100 Mahsuds. The successful operations combined with pressure brought to bear upon the Maissuds by the civil authorities prevented any tribal outbreaks on a considerable scale, but raiding has been constant, which has necessitated constant vigilance and action on the part of the troops.

Towards the end of 1914 information was received of anti-British preaching by certain mullahs in the Mohmand country but, with the exception of a raid in the neighbourhood of Shabkadar in January 1915, which was easily driven off, no serious acts of aggression were committed. On April 13th, 1915 however reports were received that the Mohmands were collecting with a view to raiding Shabkadar. During May 1915 the Swatis had been engaged in inter-tribal quarrels, but on June 18th the situation in Upper Swat, where the advance of a lashkar to the Adinzai tract threatened the safety of the Chitral road and Chakdara post, necessitated the concentration at Chakdara of the Maiakand Movea ble Column. The rapid concentration of the troops had an excellent effect and prevented any outbreak.

Gatherings in Buner during July 1915 had been reported, but the tribesmen remained quiet until August 15th, when information was received that a certain mullah, known as the Haji Sahib of Turangzai, was in the Ambela Paas with several thousand men, preparing to invade British territory. His gathering included a number of the Hindustani fanatics, a sect ultiabiting the Buner border country. A small column from Mardan was at once moved to Rustam on the Buner border. On August 17th, a hostile gathering of some three to four thousand tribesmen debouched from the Ambela Pass and moved towards Rustam, while a further force was reported to be in the neighbouring hills to the north-west, Brigndier-General S. F. Crocker at once attacked the Ambela Pass gathering and routed it with loss. A Brigade under the command of Brigndier General N. G. Woodyatt, at Rustam, took the offensive against the tribesmen whenever they appeared and during this period Brigadier-General Woodyatt was engaged with the enemy on three occasions, on all of which he was successful in driving them back into the hills with loss and destroying the villages in which they had harboured.

While these operations were in progress information was received that on August 20th a tribal gathering of some fitteen to twenty thousand men under the Sandaki mullah was advancing down the lett bank of the Swart river to invade Lower Swat. Our outposts were heavily attacked on the night of the 28th-20th August, but the enemy were driven off with loss. The next morning the column moved out and destroyed a fort and shelled several villages, which were occupied by the enemy. As a result of these operations the tribesmen

dispersed, and made no further attempts at offensive action for some time.

During August 1015, there had been some talk of Jihad on the Mohmand border, where various religious lenders had been active, and vanous religious leaders had been active, and large tribal gatherings led by these fanatical mullalis, were reported to have collected on August 28th. Two brigades with a mounted column under Bifradler-General 8. F. Crocker and Divisional Artillery, were therefore ordered column under Britadier-Genemi S. F. Crocker and Divisional Artillery were therefore ordered and Divisional Artillery were therefore ordered and to the neighbourhood of Shabkadar between August 20th, and September 2nd, while a Mobile Column under Lieutenant Colonel A. B. Longden, 36th Dogras, was formed at Mardan and subsequently moved to Abazal, were observed moving in the foothills and moraring Sangars in the vicinity of Hafiz Kor. properly Sugars in the vicinity of Hadz kor, but no steps cere taken to prevent them collect out no stepresent makes to prevent busine concerning as it was desired to entire them out into ing as it was desired to entice them out into the plain. By the evening of September 4th it was calculated that the hostile force had reached its maximum strength it force had about ten thousand) and linjor-General F all the property of the strength of the was then war Division, decided to manuling 1st Feshersited southly and displayed great bravery ten defeated with heavy loss and driven from their position. An opportunity occurred the strength of the stren were decreased when meany 1053 and oriven from their position. An opportunity occurred for cavalry action and a successful charge was

Between September 20th and 24th further nostile gatherings were reported on this border ing the mullalis made great efforts to stir up their fellows to invade British territory. No assistant, however, crossed the border until some 9 000 men again collected in the neighearly in October 1016 when hankers, humbering some 9,000 men, again collected in the neighbourhood finitz kor. Major General Campbigade under Brigadier-General N. G. Woodyatt, offensive against this enthering on brigade under Brigadier-General N. G. Woodyatt, took the offensive against this gathering on October 5th from Shabkadar. The enemy offensive astrong opposition, especially on our right flank, where the Mobile Column from Abazai was co-operating, but were defeated and forced back into the hills. A detachment of the Kinalbar, Rifles from Fort Michni took art in the Right. In this operation armoured pasting of the first time in action in result of the state o usiful Operations brought the unrest among to Mohmands to an end.

Although further gatherings were reported Although further gatherings were reported in Swat there was no actual outbreak until October 1915, when the tribesmen again advanced towards Chakdars rapidly increased arousing the tribes of Dir and Swat to attack the fort at that place. The Markand Moveable in gout from Canaddar, and Swat to attack in gout from Canaddar Camp on October 27th, companied, routed, and pursued the enemy, in ing out from Characters Chinp on October 27611, he engaged, routed, and pursued the enemy, who were severely handled and lost a standard As the result of this action there was no further gathering on this border.

In October 1016 the Mohmands again In October 1910 the nitronuments again became restive, necessitating close precautions, but no actual outbreak occurred.

Mahsud Expedition. Throughout the greater part of 1917
pence on the border was preserved in a very peace on the border was preserved in a very remarkable degree. The one exception was on the Mahsud section of the frontier where the ribesmen assumed an attitude of frent fribesmen repeatedly radding British districts; the viceroy in describing these measures in the vicercy in descriping vices measures in the course of his speech in the Imperial Legis-lative Council on the 5th September said;

"Speaking last February, of the North-West Frontier, I told you that the only discordant day that the only discordant was the transfer was the Yeleville rionities, I tota you that the only discordance elements for the time being were the Malistids and the Mohmands, that the punishment of the Mahsads must stand over till we had the letsure to deal concludively with them and fint the do deal conclusively with them and that the Mohimands were raying for their misdeeds by a close blockade. Since then the Mahsuds, by attacks on our posts and convoys and by increasing on our made it innessible for us to bold one light. lors and convoys and by moreous manner, and it impossible for us to hold our hand. linge k impossion; for us to note our more longer and an expeditionary force, under the longer and an expeditionary force, under the command of Major-General Beynon, was in consequence recently pushed into the heart of the Mahsud country. The result of these operations accepting in full the complete submission, Government, even to the extent of surrendering Government, even to the extent of surrendering the Government rifles which had fallen into their in dovernment rines when may make more them hands in the course of their previous engagements with our troops and militia—a very real real that conference of their contrition. I trust the entitlements proof of their contrition. I tribt the settlement bo effected may relieve us from anxiety in this quarter for some time to come. In this condunter for some time to come, an emaconic nection it would be an ungrateful and ungracious omission on my part were I to fail to express our deep obligations to His Majesty the Anir, whose friendly influence served not only to whose friendly influence served not only to discourage the Mahsuds, but also to steady the whole situation. Indeed one of the very fow happy results of this deplorable world-wide war has been that the ties of friendship between the factor of the control of the Alghan Government and ourselves have been drawn closer and our relations with His Majesty the Amir are marked by greater confidence and the same are marked by Steater community and Steater co-operation than ever before The Mohinands, too, chastened by the rigour of our Moninana, 100, chariened by the rigour of our blockade, have come to their knees and accepted the terms dictated by my Government. although there two elements of discord have atthough these two elements of discord have been so satisfactorily laid to rest it would be forniter as no longer a potential source of the second the second control of the sec or to relax our vigilance. So long as the disturbing influence of the war continues, so long as enemy agents can find their way into tribal as enemy agents can find their way into tribal territory, so long as faintfeal preachers can the situation must require careful limiding and special measures of precaution. It is for the special measures of precaution. It is for this special measures of precaution. At 45 for ting reason that I have been constrained to rule out reason that I have seen constrained to rule out during the present seed on of this Council a council as the administration of successions founding the administration. during the present account of the administration mumber of questions touching the administration number of questions coacaing the administration of the North-West Frontier, The connection of the Action of the settled districts and their wild neighbours across the border is so intimate, the re-action of feeling between them is so mare, the reaction of recurs between them 18 so acute that often special measures are necessary to alp inciplent trouble in the bud and for the

sion of such measures in this Connell would obviously be out of piace at the present time and could only serve to hamper the frontier administration.

short communique was issued by the Military authorities on the operations which was to the following effect:—On the dispersion of the Waziristan Field Forces, the Commanderin-Chief desires to express to all ranks, his satisfaction at the manner in which the operations against the Mahsuds have been brought to so speedy and successful a termination. This result has been due to the skilful manner in which the operations were conceived and carried out by the generals in commands, to the intimate co-operation between the arms engaged. but above all to the pluck and determination displayed by the troops, combatant and noncombatant, British and Indian, frontier militias and constabulary and our callant Allies, the Repalese contingent. There were many obstacles to be overcome in a climate and under conditions of the most trying description, but they were overcome in a manner worthy of the best traditions of the British Army. For the first time the tribesmen on this part of the frontier have felt the power of the Royal Flying Corps which carried out its duties with the dash and daring to which the army has become accustomed.

It gives the Commander-in-Chief great pleasure to associate in this Order the political officers on the staffs of the forces, to whom his thanks are due for the tact and firmuess which have so largely contributed to a successful and speedy settlement, and for the generous manner in which they placed their own residence at the disposal of the sick and wounded. The Italiany Telegraph, and Postal Departments were subjected to a severe strain, and it was due to their resources and devotion to duty that the requirements of the forces were always met,

In conclusion, the Commander-in-cluel, on behalf of the Army, gratefully acknowledges the assistance given by the "Red Cross" and "Comforts for Troops" societies, whose generous

lugintonance of peace on our borders the discussionate the trying conditions of a radiust campaign on the frontier.

A small honours list was enbacquently femed In connection with the expedition which contained the following unards:-

His Majorly the King has been graciously pleased to approve the following immediate rewards for distinging had service in the feld with the Warlristan Field Force:-

K.C.I.E.; - Major General W. G. L. Baynon, C.B., C.I.E., D.S.O., I.E.

Brevet Colonel:- Lient. Col. W. E. Dickson, C.LE., E.E.

Brevet Bleut.-Col.; -Tempomry Brigadict-General : B. Loch, p.s.o., p.s.

Brevet Lieut, Colonel: - Major W. W. Bickford, c.J.E., J.A.

As for the nomenclature of the Frontier tribes, the term Pathan is not melal. If is used to denote status, and is generally used of the Frontier tribes and their connections. Furthest to the South, on the borders between the North-West Prontier Province and Balachistan, are found the Shiranis, who are an Aluhan people. Waziristan is inhabited by the Waziris, who have two main branches, the Mahsud Waziris, found in Southern Waziristan, and the Darwesh Khel Waziris, mostly in Northern Wariristan. Northern Wariristan. The latter have two main sections, the Utmanzai and the Ahmadzai, and these again are subdivided into numerous claus. In the Kurram the Turis (who unlike their neighbours are Shikhs) form the strongest clement. In the Khyber region the main tribes are the Orakian and the Afridis, both found in the property of the main tribes are the Orakian and the Afridis, both found in the property of the main tribes are the orakian and the Afridis, both found in the property of the control found in the mountainous country south of the Khyber Pass commonly called Tirah; both are extensively subdivided, the strongest sections of the Orakzal teing the Lashkarzai and the Masozal, and of the Afridis the Malik Bin Khel the Zakka Khel, the Kambar Khel and the Kuki Khel. Between the Khyber Pass and the kabul filver are the Mullagoris, and further south the Mohmands and the Uiman Khel-lleyond these are the Yusufzal, who form the efforts did much to alleviate the hardships and is inhabited by races whose origin is obscure.

AFGHANISTAN.

The relations of Afghanistan with the Indian up, if necessary, to support the Afghans in Empire are dominated by one main consideration—the relation of Afghanistan in Theorem 1997. tion—the relation of Afghanistan to a Russian Invasion of India. All other considerations are of secondary importance. For nearly three-quarters of a century the attitude of Great Britain toward successive Amirs has been detated by this one factor. It was in order to prevent Afghanistan from coming under the influence of Russin that the first Afghan War 21222 War of 1838 was fought—the most melancholy episode in Indian frontier history. It was because a Russian envoy was received at Kabur whilst the British representative was turned back at All Masjid that the Afghan War of 1878 wan waged. Since then the whole end of British polloy toward Afghanistan has been

Gates to India.

A knowledge of the trans-frontier geography of India brought home to her administrators the conviction that there were only two main gates to India—through Afghanistan, the historic route to India, along which successive invasions have poured, and by way of Seistan-It has been the purpose of British policy to close them, and of Russia to endeavour to keep them at a party of them at a party is possible. them at any rate half open. To this end having pushed her trans-Persian rallway to Samarkand Russia thrust a military line from stery to the Krathelian Raman Russia thrust a military line from stery to the Krathelian Raman Russia thrust and said of British polley toward Afghanistan has been to the Kushkilnsky Post, where railway material to build up a strong independent State, riendly to Britain, which would act as a buffer against Russia, and so to order our frontier polloy that system, by the Orenburg-Tachkent line, thus bringing Central Asia into direct touch wit.

her European magazines. She was, until recently, credited with the determination to build the Termes railway, which would menner anotheast. Afghanistan just as the Kushkas Great Britain been idle. A great military about the time of the Helmand in Selstan. It station has been ereated at Queeta. This is connected with the Indian railway system by self-armed regular and one hundred thousand tribal levies, of the fame menace the whole of Baluchistan in steep has been brought under British control. Quette its own one of the great stategiest positions of the world, and nothing has been left and the which modern military science can achieve to and to its natural strength. In the opinion of many military authorities it firmly closes ground that he could not protect him, and the western gate to India, either by way of Kandahar, or the direct route through Sestan. Further east the Indian railway system has been carried to Jamrad, at the entrance to of St. James. Further east the Indian railway system has been carried to Jamrud, at the entrance to the Khyber Pass. A first class military road, the following the pass to our advanced post at Landl Kotal, and then descends until it meets the Afghan frontier at Tor Khum. Later, a commence way, which, starting from Peshawar, was de tagged to penetrate the Mullagori country and way, which, starting from Peshawar, was designed to penetrate the Mullagori country and slemed to penetrative advance to the Khyber for the movement of British troops for the design of Kabai. For unexplained reasons, this line was suddenly stopped and is now thrust in the air. In this wise the two Powers prepared for the great conflict which was to be fought on the Kandahar-Ghazni-Kabui line. be fought on the Kandahar-Ghazni-Kabul line.

Relations with India.

Between the advanced posts on either side stands the Kingdom of Afghanistan. The end stands the Kingdom of Afghanistan. The end of British policy has been to make it strong and friedly. In the first particular it has largely endy. In the first particular it has rahaman was invited to ascend the throne, of 1870, none realized his treat qualities. Peras the only means of escape from the tangle of 1879, none realised his great qualities. Pre-viously the Amir of Afghanistan had been the chief of a confederacy of clans. Abdurrahaman made himself master in his own kingdom. By means into which it is not well closely to enter, means into which it is not well closely to enter, he beat down opposition until none dared lift a hand against him. Alded by a British subsidy of twelve lakes of rupees a year, increased to eighteen by the Durand Agreement of 1893, he established a strong standing army and set up arsenals under foreign supervision to furstep his position was regularised. The Anglo-

station has been created at Quetta. This is connected with the Indian railway system by like a pass and to the Quetta and tregular and irregular troops, to sether with two hundred thousand troops, the post picture-sque and through the world. The material is stocked at New Chaman, where it opens on the route of the Angulahar. The material is stocked at New Chaman which would enable the line to be of the fame menace the whole of Baluchistan to the fame menace the whole of Baluchistan of the world, and nothing has been left undone which modern military science can achieve to consider the could not under British control. Quetta the same menace the whole of Baluchistan to the fame menace the whole of Baluchistan to the fame menace the whole of Baluchistan the fame menac the refused to accept a British Resident, on the ground that he could not protect him, and British affairs have been entrusted to an Indian country of the could not protect him, and british affairs have been entrusted to an Indian country of the country of the

Position To-day. It used to be one of the commonplaces of Indian discussion that the system which Abdurmhaman Khan had set up would perish with him, because none other was capable of maintatasumu rama into per up "out persis" with thir, because none other was capable of maintaining it. Abdurahaman Kanable of maintaining it. Abdurahaman Kanable of maintaining it. Abdurahaman Kanabale of maintaining it. Abdurahaman Kanabale of maintaining it. Abdurahaman kanabale of maintaining it. Abdurahaman kila habbulah, who had been becaused it is father and has since peace occurred the same obligations on the same and apparently both consultations on the work of the consultation of the same and apparently both coloved and profited by secrems Afghanistan has been listed so little that there is no definite knowledge of what impossible to describe the attitude of the Amir stowed upon him in India, especially the consultations. as triendly. It is said that the donours be-stowed upon him in India, especially the con-ferring of a Royal Title, increased the mera-lomania from which all Afghans suffer. He nomana nom winen an Argumin bunct. Ho bitterly resented the conclusion of the Anglo-Russian Agreement, without any prior processes the sale and has navor given his rethesion. Russian Agreement, without any prior reference to himself, and has never given his adhesion to it over. His attitude toward the Frontier disturbances of 1907-08 was peculiar. There is no doubt that the Zakka khel rising was Aghans, equipped in Afghan territory, particularly composed of Afghans. The cathery composed of Afghans. The most favourable interpretation placed on his conduct is that during his absence in India, folnish it with arms and ammunition. Step by step his position was regularised. The Anglo-in Russian Boundary Commission.—which nearly precipitated war view for the Penjade nearly in 1885.—determined the northern boundaries. In 1885.—determined the northern boundaries. Agreement agreement definited the borders believed the borders on the British side. Finally the McMahon award closed position of the ruler of Afghanistan is not an expectation position p

periences in Khost indicate that the strength of the central power has been exaggerated in 1912, the Mangals of Khost revolted against an unpopular governor and besieged him in his own stronghold. There was much talk of the prompt and severe punishment of the rebels, but the troops never reached the valley and the rebels were bought off by the dismissal of the unpopular governor.

Anglo-Russian Agreement.

Inasmuch as Afghan politics, in their rela-Insmuch as Arguan pointes, in their reas-tion to Great Britain, were determined by the Russian menace, they have receded with the conclusion of the Anglo-Russian Convention The part of the Anglo-Russian Convention relating to Afghanistan is as follows; I. The British Government dischaim may intention of changing the political position in Afghanistan, and undertakes neither to take measures in Afghanistan, nor to encourage Afghanistan Afghanistan, nor to encourage Afghanistan to take measures, threatening Russia. The Russian Government recognises Afghanistan as outside the Russian sphere of influence, and agrees to act in all political relations with

a noted Anglophobe and reactionary, is the Afghanistan. II. Great British adheren to Commander-in-Chief of the Army and the the provisions of the treaty of Rabul of March liead of the orthodox party. The administration of the country is extremely lax. Exceptly, any part to the raid treaty, any part of the country is extremely lax. of Afghanistan, or to intervene in the internal administration. The receivation is made that tracted by him in the aforementioned treaty. III. Russlan and Afghan officials especially appointed for that purpose on the frontier, of in the frontler provinces, may enter into direct relations in order to rettle local questions of a non-political character. IV. limids and Great Britain declare that they recognize the principle of equality of treatment for commerce and agree that all facilities acquired already or in the future for British and Angle-Indian connecte and merchants shall be equally applied to Russian Commerce and merchants V. These arrangements are not to come into force until Great Britain has notified to Resis the Amir's assent to them.

The Amir has never given his adhesion to the Agreement; but Great Britain and Russia have agreed to regard the Agreement as if the Amir had accepted it.

On the outbreak of the war His Majesty the Amir declared his complete neutrality, and Afghanistan through the British Government, this policy was pursued during the year in and it also undertakes to send no agents to circumstances of great difficulty.

TIBET.

Recent British policy in Tibet is really another phase in the long-drawn-out duel between Great Britain and Itussia in Central Asia. The carliest efforts to establish communication with that country were not, of course, inspired by this apprehension. When in 1774 Warren Hartings despatched Bogle on a mission to the Tashi-Lama of Shigatse,-the spiritual equal, if not superior, of the Dalal Lama of Lhasais not superior, or the Daiai Lama of Lineahis desire was to establish facilities for trade,
to open up friendly relations with a Power
which was giving us trouble on the frontier,
and gradually to pave the way to a good understanding between the two countries. After
Warren Hasting's departure from India the
subject slept, and the last Englishman to visit
Lineas, until the Younghusband Expedition
of 1004, was the unofficial Manning. In 1886. of 1904, was the unofficial Manning. In 1885, under the inspiration of Colman Macaulay, of the Bengal Civil Service, a further attempt was made to get into touch with the Tibetans, but it was abandoned in deference to the oppostition of the Chinese, whose suzerniny over Tibet was recognised, and to whose views until the war with Japan, British statesmen were inclined to pay excessive deference. But the position on the Tibetan frontier continued to be most unsatisfactory. The to be most unsatisfactory. The Tibetans were aggressive and obstructive, and with a view to putting an end to an intelerable situation, a Convention was negotiated between Great Britain and China in 1800. This laid down the boundary between Sikkim and Tibet, it admitted a British protectorate over Sikkim, and paved the way for arrangements for the conduct of trade across the Sikkim-Tibet frontier. These supplementary arrangements rontier. These supplementary arrangements provided for the opening of a trade mart at Yatung, on the Tibetan side of the frontier, wards officia to which British subjects should have the right

of free access, and where there should be no restrictions on trade. The agreement proved uscless in practice, because the Tibetans re-fused to recognise it, and despite their establish-ed suzeminty, the Chinese Government were unable to secure respect for it.

Russian Intervention.

This was the position when in 1809 Lord Curzon, Vicercy of India, endeavoured to get into direct touch with the Tibetan authorities Three letters which he addressed to the Dalsi Lama were returned unopened, at a time when the Dalai Lama was in direct intercourse with the Tear of Russla. His emissary was a Siberian Dorjieff, who had established a reconstraint account of the control of the co markable ascendancy in the counsels of the Dalai Lama. After a few years' residence at Lhasa Dorilest went to Russia on a confidential Lhasa Dorileff went to Russia on a confidential mission in 1800. At the end of 1900 he returned to Russia at the head of a Tibetan mission, of which the head was officially described in Russia as "the senior Teanite Khomba attached to the Dalai Lama of Tibet." This mission arrived at Odessa in October 1900, and was received in audience by the Tsar at Livadia. Dorileff returned to Linasa to report progress, and in 1901 was at St. Peterburg with a Tibetan mission, where as bearers of an autograph letter from the Dalai Lama they were received by the Tsar at Peterboff. They were escorted home through Central Ada by were escorted home through Central Asla by were escorted home through Central Asia by a Russian force to which several Intelligence Officers were attached. At the time it was rumoured that Dorjiech had, on behalf of the Dalai Lama, concluded a treaty with Russis, which virtually placed Tibet under the protectorate of Russia. This rumour was afterwards officially contradicted by the Russian Government. The Expedition of 1994.

of India, treating the idea of Chine e surerainty over Titlet as a constitutional fiction, from name proposed in 1903 to despatch a mission, with his armed except, to Liusa to discuss the out-of-live as follows. standing questions with the Tiletan authorities on the spot. To tide the Home Covernment could not avent, but agreed, in conjunc-tion with the Chinese Covernment, to a foint meeting at Khamba Jong, on the Hibetan side of the frontler. Sir Prancis Younghusband was the British representative, but after months of delay it was a certained that the Tibetans had no intention of committing themselves. It was therefore agreed that the inision, with a strong ereort, should move to Gyantee. On the way the Tibetans developed marked hortlity, and there was fighting at Tuna, and several -harp encounters in and around Gyantic. It ras therefore decided that the mission should dvance to Lhasa, and on August Srd, 1904, hasa was reached. There Sir Francis Young-invibad negotiated a convention by which he Thelans agreed to respect the Chinese convention of 1890; to open trade marts at Gyantee, Garlok and Yatung; to pay an ademnity of £500,000 (soventy-five lakis of rapers); the British to remain in occupation of the Chumbi Valley until this indemnity Chumbi Valley until this indemnity was paid off at the rate of a lakh of rupees a year. In a separate instrument the Tibetans agreed that the British Trade Agent at Gyantse should have the right to proceed to Linea to discuss commercial questions, if necessary,

Home Government intervenes.

For reasons which were not apparent at the time, but which have since been made clearer, the Home Government were unable to accept the full terms of this agreement. The indemalty was reduced from seventy-five lakes of rupees to twenty-five lakes, to be paid off in three years, and the occupation of the Chumbi Valley was reduced to that period. The right to despatch the British Trade Agent to Linasa was withdrawn. Two years later (June 1906) Convention was concluded between Great Britain and China regulating the position in Tibet. Under this Convention Great Britain agreed neither to annex Tibetan territory, nor to interfere in the internal administration of Tibet, China undertook not to permit any other foreign State to interfere with the territory or internal administration of Tibet. Great Britain was empowered to lay down telegraph lines to connect the trade stations with India, and it was provided that the provisions of the convention of 1890, and the Trade Regulations of 1893, remained in force. The Chinese Government paid the indemnity in three years and the Chumbi Valley was evacuated. The only direct result of the Mission was the opening of the three trade marts and the establishment.

territory, nor to rend a representative to Linea. In slew of the conditions the Government A cevenly-five year occupation of the Chumbil India, treating the idea of Chine e sure. Valley would have been indistinguishable from annexation. The portions of the Anglo-Russian Agreement which relate to Tibet are

Article L.-The two High Contracting Parties curage to respect the territorial integrity of libet and to abstain from all interference in its internal administration.

Article II .- In accordance with the admitted principle of the surcrainty of China over Tibet, Great Britain and Russia engage not to enter into negotiations with Tibet, except through the intermediary of the Chinese Government, This engagement does not exclude the direct relations between the British Commercial Agents and the Tibetan authorities, provided for in Article V of the Convention between Great Britain and Tibet of the 7th September, 1901, and confirmed by the Convention be-tween Great Britain and China of the 27th April 1906; nor does it modify the engagements entered into by Great British and China in Article I of the said Convention of 1906.

It is clearly understood that Buddhists, subjects of Great Britain or of Russia, may enter into direct relations on strictly religious matters with the Dalal Lama, and the other representatives of Buddhism in Tibet; the Governments of Great Britain and Russia engage, as far as they are concerned, not to allow these relations to infringe the stipulations of the present arrangement.

Article III .- The British and Russian Governments, respectively, engago not to send Representatives to Lhasa.

Article IV .- The two High Contracting Parties engage neither to seek nor to obtain, whether for themselves or for their subjects any concessions for railways, roads, telegraphs and mines, or other rights in Tibet.

Article V .- The two Governments agree that no part of the revenues of Tibet, whether in kind or in cash, shall be pledged or assigned to Great Britain or Russia or to any of their

Annexed to the Agreement was a re-affirmation of the declaration for the evacuation of the Chumbi Valley after the payment of three annual instalments of the indemnity, pro-vided that the trade marts had been effectively opened for three years and that the Tibetans had complled in all respects with the terms of the Treaty.

Chinese Action.

the constant of 1890, and the Trade Regulations of 1893, remained in force. The Chinese Government paid the indemnity in three years and the Chumbi Valley was evacuated. The only direct result of the Mission was the opening of the three trade marts and the establishment of a British Trade Agent at Gyantse.

The Angio-Russian Agreement.

The reason underlying the action of the British Government in modifying, in such material particulars, the Convention of Lhass was apparent later. The Angio-Russian Agreement was apparent later. The Angio-Russian Agreement would be held responsible for the foreign relations of Tibet in the past this surarinty having been a "constitutional action," it was The sequel to the Anglo-Russian Agreement

inevitable that China should take steps to see | equal footing with other provinces of China; that she had the power to make her will respected at Lhasa. To this end she proceeded to convert Thet from a vassal state into a province of China. In 1908 Chao Erh-feng, province of China. In 1893 Chao Eth-leng, acting Viceroy in the neighbouring province of Szechuen, was appointed Resident in Tibet. He proceeded gradually to establish his authority, marching through eastern Tibet and treating the people with great severity. Meantime the Dalai Lama, finding his presence at Urga, the seat of another Buddhist Pontiff, Citicama had taken refused in Schotter. irksome, had taken refuge in Si-ning. Thence he proceeded to Peking, where he arrived in 1908, was received by the Court, and despatched to resume his duties at Lhasa. Moving by leisured stages, he arrived there at Christmas 1909. But it was soon apparent that the ideas of the Dalai Lama and of the Chinese Government had little in common. The Dalai Lame expected to resume the temporal and spiritual despotism which he had exercised prior to 1904. The Chinese intended to deprive him of all temporal power and preserve him as a spiritual pope. The Tibetans had stready been exasperated by the pressure of the Chinese soldiers. The report that a strong Chinese force was moving on Liaza so alarmed the Dalai Lams that he fied from Liasa, and by the irony of fate sought a refuge in India. He was chased to the frontier by Chinese troops, and took up his abode in Darjeeling, whilst Chinese troops overran Tibet.

Later Stages.

The British Government, acting on the representations of the Government of India, made strong protests to China against this action. They pointed out that Great Britain, while disclaiming any desire to interfere with the internal administration of Tibet, could not be indifferent to disturbances in the peace of a country which was a neighbour, on intimate terms with other neighbouring States on our frontier, especially with Nepal, and pressed that an effective libetan Government be maintained. The attitude of the Chinese Government was that no more troops had been sent to Tibet than were necessary for the preservation of order, that China had no intention of converting Tibet into a province, but that being responsible for the good conduct of Tibet, ahe must be in a position to see that her wishes were respected by the Tibetters Visually the ane must be in a position to see that her wishes were respected by the Tibetans. Finally, the Chinese remarked that the Dalai Lams was such an impossible person that they had been compelled again to depose him. Here the compelled again to depose him. Here the matter might have rested, but for the revolution in China. That revolution broke out in Szechuen, and one of the first victims was Chao Erh-feng. Cut off from all support from China, surrounded by a hostile and infurlated populace, the Chinese troops in Tibet were in a hopeless case; they surrendered, and sought escape not through China, but through India, by way of Darjeeling and Calcutta. The Dalai Lama returned to Lhasa, and in 1913, the balat Lama returned to Links, and in 1918, in the House of Lords on July 23, Lord Morley stated the policy of the British Government in relation to these changes. He said the declaration of the President of the Chinese Benublis and the President of the Chinese Republic saying that Tibet came within the sphere of Chinere internal administration: and that Tibet was to be regarded as on an

was met by a very vicorous protest from the British Government. The Chinese Government subsequently accepted the principle that China is to have no right of active intervention in the internal administration of Tibet, and agreed to the constitution of a conference to discuss the relation of the three countries. This Convention met at Simls when Sir Henry McMahon, Foreign Secretary to the Government of India; Mr. Ivan Chen, representing China; and Mr. Long Chen Shatra, Prince Minister to the Dalai Lama, threshed out these lasnes. Whilst no official pronouncement has been made on the subject, it 5 understood that a Convention was initialled in June which recognised the complete autonomy of Tiber proper, with the right of China to maintain a Resident at Lhasa with a suitable guard. semi-autonomous zone was to le constituted in Eastern Tibet, in which the Chinese position was to be relatively much stronger. But this Convention, it is understood, has not been ratified by the Chinese Government, owing to the difficulty of defining Outer and Income Tibet.

Political Importance of Tibet.

The political importance of Tibet in relation to India has of necessity been changed by the Anglo-Russian Agreement. So long as that instrument is in force, it tends to decline. no treaties are everlasting. The question has been admirably summed up by Sir Valentins Chirol ("The Middle Eastern Question"), written before the Agreement was reached. "What it would be impossible to view without some concern," he wrote, "would be the accendance of a foreign and possibly hostile power at thiss, controlling the policy of a great politico-religious organisation whose influence can and does make itself appreciably felt all along the north-castern borderland of India. thissa is the stronghold of Lamastic Buddhism. iebased form of Buddhism largely overgrown with tantric philosophy—Linas is in his the Rome of Central Asian Buddhiem, and the many-storied Pota-la on the hill to the west of the city is its Vatican, whence its influence and the city is the variety of the city is the city of the city of the city is the city of the cit radiates throughout innumerable lamaseries or Buddhist monasteries, not only into Turker tan and Mongolia and Western China, but across the Himalayas into the frontier States of our Indian Empire. Corrupt and degraded as it is, it is still unquestionably a power, and just because it is corrupt and degraded it might lend itself more readily to become for a consideration the they may be, where they march with a powerful neighbour, and most of all in India, where our frontier is fringed with semi-independent Native States, over which our authority is conditioned. ditioned mainly on the hitherto unrivalled prestige of our Imperial power in Acia.

British Trade Agent, Yatuny -D. Macdonald. Brilish Trade Agent, Gyantes .- Major W. L. Campbell.

THE NORTH-EASTERN FRONTIER.

The position on the northern frontier has Excepting the Aborg none of these tribes have been considered as if the British line were contiguous with that of Tibet. This is not so. The real frontier States are Kashmir, Nepal, Sikkim and Bhutan. From Chitral to Glight, now the northernmost posts of the Indian Government, to Assam, with the exception of the small wedge between Kashmir and Nepal, where the British district of Kumaon is thrust right up to the confines of Tibet, for a distance of nearly fifteen hundred miles there is a narrow strip of native territory between British India and the true frontier. The first of these frontier States is Kashmir. The characteristics of this State are considered under Native States (q.v.); it is almost the only important Native State in India with frontier responsibilities, and of its officient Imperial Service troops—four regiments of infantry and two Mountain Batteries, composed mainly of the Rajput Dogras, who make excellent flighting material. One of the most important trade routes with Tibet passes through Kashmir—that through Tadal. passes through Kashmir—that through Ladak. Then we come to the long narrow strip of Nepal. This Gurkha State stands in special relations with the British Government. It is for all practical purposes independent, and the British resident at Khatmandu exercises no influence on the internal administration. The governing mathe internal administration. The governing machine in Nepal is also peculiar. The Maharaj Dhiraj, who comes from the Sesodia Ralput clan, the bluest blood in India, takes no part in the administration. All power vests in the Prime Minister, who occupies a place equivalent to that of the Mayors of the Palace, or the Shogans of Japan. The present Prime Minister, Sir Chandra Shamsher, has visited England, and has given conspicuous evidence of his attachment to the British Government. attachment to the British Government. Nepal is the main Indian outpost against Tibet, or against Chinese aggression through Tibet. The friction between the Chinese and the Nepalese used to be frequent; and in the eighteenth century the Chinese marched an army to the confines of Khatmandu—one of the most remarkable military achievements in the bistory of Asia. Under the firm rule of the present Prime Minister Nepal has been largely free from internal disturbance, and has been raised to a strong bulwark of India. Nepal is the recruiting ground for the Gurkha Infantry, who form such a splendid part of the fighting arm of the Indian Empire. Beyond Nepal are the smaller States of Bhutar and Sikkin, whose rulers are Mongolian by extraction and Buddhists by religion. In view of Chinese aggressions in Tibet, the Government of India in 1910 strengthened their relations with Bhutan by increasing their subsidy from fifty thousand to a lakh of rupees a year, and taking a guarantee that Bhutan would be guided by them in its foreign relations. Afterwards China had officially notified that Great Britain would protect the rights and interests of these States. used to be frequent; and in the eighteenth cen-

recently given trouble. The murder of Mr. Williamson and Dr. Gregorson by the Minyong Abors in 1911 made necessary an expedition to the Dihang valley of the Abor country on the N. E. frontier. A force of 2,500 and about 400 military police was employed from October 1911 to April 1912 in subduling the tribe. After two or three small actions the murderers were delivered up. The cost of the expedition was Rs. 21,60,000. At the same time friendly missions were sent to the Mishmi and Miri countries. Close contact with these forest-clad and leech-infested hills has not encouraged any desire to establish more intimate relations with them. The area occupied by the Nagasares runs northwards from Manipur. The Nagasares from the Assam boundary to the northern boundary of the Shan States is for the most part included in the Myltkyina and Bhamo part included in the Myitkyina and Bhamo districts of Burma. Over the greater part of this area, a labyrinth of hills in the north, no direct administrative control is at present exercised. It is peopled by the Shans and the Kachins. Civilisation is said to be progressing and steps have been taken to prevent encroachments from the Chinese side. There is a considerable trade with China through Bhamo. On the Eastern frontier of Burma are the Shan States, with an area of fifty thousand square miles and a population of 1,800,000. These States are still administered by the Sawbwas or hereditary chiefs, subject to the guidance of Superintendents and Assistant Superintendents. The Northern Shan Radiway to Lashio, opened in 1903, was meant to be a stage in the construction of a direct railway link with China, but this idea has been put be a stage in the construction of a direct railway link with China, but this idea has been put aside, for it is seen that there can never be a trade which would justify the heavy expenditure. The Southern Shan States are being developed by railway connection. The five Karenni States lie on the frontier south of the Shan States. South of Karenni the frontier runs between Siam and the Tenasserim Division of Burma. The relations between the Indian Government and the progressive kingdom of Siam are excellent.

Unrest, which had been brewing for som time among the Kachins, came to a head in December 1914 and January 1915, when puni-tive operations were undertaken. The columns originally consisted of Burma Military Police. but as the disturbance appeared more general and likely to spread, regular troops were ordered, up to Myitkyins. In the Kamaing and Mo. gaung Jurisdictions, and the adjoining unad. wards China had outcamy nothed that Great gaing Junisdictions, and the algoining unad. Britain would protect the rights and interests of these States.

Assam and Burma.

We then come to the Assam border fribes—
the Daflas, the Miris; the Abors and the Mishmis, and the implicated villages destroyed.

Railways to India.

The prospect of linking Europe and Asia by a Russo-Turkish agreement was passed, rerallway running castwards through Asia Minor has fascinated men's minds for generations. The plans suggested have, owing to the British connection with India, always lain in the direction of lines approaching India. More than 40 years ago a Select Committee of the House of Commons sat for two years to consider the question of a Euphrates Valley railway. The Shah of Persia applied to the British Foreign Office for the investment of British capital in Persian rallway construction many years before the end of the nineteenth century. A proposal was put forward in 1895 for a line of 1,000 miles from Cairo and Port Said to Kowelt, at the head of the Persian Gulf. While these projects were in the air, German enterprise stopped in and made a small beginning by constructing the Anatolian milway system. Its lines start from Scutari, on the southern shore of the Bosphorus, opposite Constantinople, and serve the extreme western end of Asia Minor. And upon this foundation was based the Turkish concession to Germans to build the Baghdad Railway.

Meanwhile, Russia was pushing her railways from various directions into the Central Asian territory running along the northern frontiers of Persia and Afghanistan to the borders of Chinese Turkestan. The advance of the Russian rallheads was regarded with extreme suspicion in England as part of a scheme of adventure against India, and as the Russian lines crept southwards British Indian rail-ways were thrust forward to the Indian northwest frontier. As the two systems approached one another, enthusiasts adombrated plans for linking them together. M. do Lesseps, the creator of the Suez Canal, made a journey to Bombay to lay one before the Indian Government. He was proposing to start homewards through Afghanistan and Central Azin, that he might examine a route that way. so that he might examine a route that way, and via Orenburg to Moscow, when the Aighan wars broke out and ended his dream.

The construction of a Trans-Persian railway, connecting India, across Persia, with the Russian lines between the Black Sea and the Casplan Sea has come to the forefront since the conclusion of the Anglo-Russian agreement regarding Persia, and simultaneously with this and the advance of the Baghdad milway old projects for British lines running inland into Persia from the Persian Gulf have been quickened.

The actual position in regard to these varlous undertakings up to the outbreak of the European war and, so far as can be ascertained. since then, is as follows :-

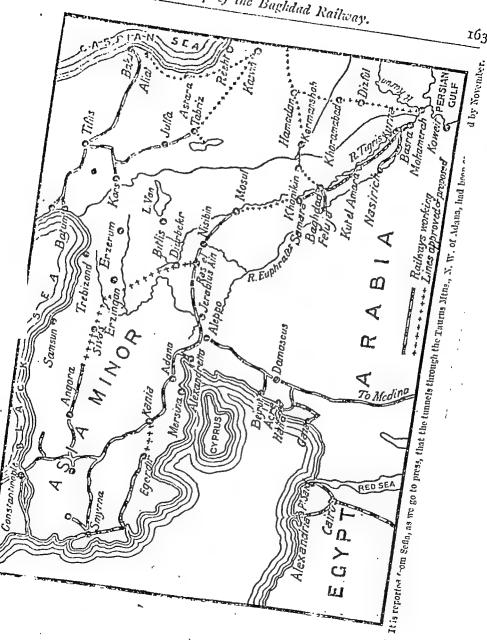
Baghdad Railway.

The German group holding the Anatolian railway concession was granted, in 1902, a further concession for extending that system from Konia, then its southern terminus, through the Taurus range to the extreme eastern Medi-terranean seaboard, and by way of Nisibin, Mosal and Bagadad to Basra. This concession

serving to Russia the sole right to construct rallways in the northern part of Asla Minor, and Russia has since then prepared a number of projects for that region, branching out from Samsun, on the Black Sea. Russia has also prepared her Caucasian rallways for possible extensions in the same region, pushing her lines towards Van and making an agreement with Pereia, in February, 1913, for a line to Lake Urumla, which was completed in the early part of 1917.

The Anatolian railway company were apparently unable to handle their new concession and initiated fresh negotiations, which resulted in the Baghdad Railway convention of March, 1903. This caused much discussion in England, owing to the apparent intention of the Germans to encroach on the Persian Gult Attempts were made by the German group to secure the participation of France and Britain in the undertaking. They were successful in France, the Imperial Ottoman Bank group agreeing to take 30 per cent. of the finance, without, however, the countenance of the French Government. But in England, though Mr. Bal-four's Government was favourable, strong objection was taken to the constitution of the Board of Directors, which established German control in perpetuity. It was regarded as a German political move and participation was rejected.

The financial terms, with a Turkish kilo-metric guarantee, were highly favourable to the company. Thus, the outside cost of construction of the first section, which lies entirely in the plains of Konia, is estimated to have been £025,000, and the company retained a profit of at least 1‡ millions sterling on this part of their enterprise. In the second sec-tion the Taurus range was encountered and construction was more difficult and more and construction was more difficult and more costly. The railway must for a long time be a heavy burden on Turkish finance. The country through which it passes from the Mediterranean scaboard to the Tigris valley above Baghdad holds out little or no prospect of commercial advantage, and the financial system adopted offers no inducement to the concessionaires to work for increasing earn-ings. Thus, the Baghdad railway company sublet the working of the line to the Anatolian Railway Company at a rate of £148 per kilometre, as against £180 per kilometre guaranteed by the Turkish Government. The weight of the Turkish obligations in connection with the railway had an important effect upon the discussions, in Paris in the summer of 1913, of the international committee for the examination of questions relating to the Ottoman Debt. The committee was appointed in re-ference to the financial settlement between Turkey and the Balkan States after the war and it became evident that for some Powers, whatever the deserts of the Balkan Alles might be; the Baghdad railway and Turkey's ability to pay the guarantee upon it were the one fixed rount to be murated in the Ottorna Employ. was substituted for a line projected by a more northerly route through the pass of Diarbekr, Russia strongly objected to that route, on the ground that it would bring the line into the Black Sea basin. When it was abandoned,



tical interests in the regions of the Eachdad completed as far as Nisibin and probably as lines and the French rallway system in Syria. for as Mosul, Whether the line has yet been The Baghdad Rallway was during 1013 carried to Mosul and perhaps beyond it cannot advanced southward from Konia 182 miles, be stated.

Taurus. On the northern slope of the Construction was, before the war, hing Taurus. On the southern slope of the mountains, the Mersina-Adana line had been interpreted on on the Righdad-Mosul section, tains, the Mersina-Adana line had been interpreted on the Righdad Mosul section, tains, the Mersina-Adana line had been interpreted on the Righdad Mosul section, tains, the Mersina-Adana line had been interpreted on the Righdad by special bares from Adana to Dorak, among the southern and tups. The line from Baghdad to Sumiko footbills of the Taurus. Work then proceeded about 40 miles north of Righdad, was handed according to the footbills.

Eastward from Adana, construction vanced throughout 1013, towards the head of the French Syrian lines at Aleppo, and work was begun on a short branch line connecting this new piece with Alexandretts. The branch was opened to traffic early in 1914. The Germans submitted plans to the Turkish Government in 1913 for the construction of a new port at Alexandretta, in accordance with the terms of a supplementary concession sanctioning the branch line. These included the construction of three docks, a feature of considerable interest. Work was begun early in 1913 on allue running north-west from Aleppo to meet that coming from Adana. It had to pierce the Amanus range of hills by a tunnel three miles long, which, it was estimated, would take three years to construct. Here, as on the Taurus range, the break in the line was at first overcome by building a road and establishing a motor car service upon it, but there is reason to believe that the railway has long since been completed and in use.

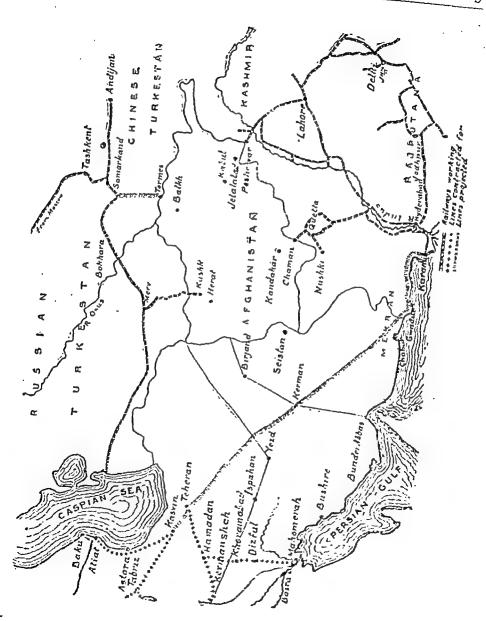
So far from the war having stopped work on any section of the railway, it has, for military considerations, led to its being pushed forward with increased energy.

Progress has meanwhile been made with important stages of the line running north-east from Aleppo en route to Bachdad. This line was in 1913 open to Jerablus, on the Euphrates and the construction of a large bridge at that spot was immediately undertaken, while motor boats and a steamer or two were taken in pleces to Jerablus and launched for river traffic to Baghdad. The journey from Belrut to Eaghdad was thus reduced to 81 days, counting two days from Belrut to Jerablus by train, the days by steamer to Feluja, and finally, 10 hours carriage drive to Baghdad. The river traffic is likely to be interrupted in the 9: 1916 stated that the line had certainly been will be necessary. The contents of the Agree-

between them through the mountains is 50 reported in 1915 that another 80 miles on this miles. The limestone mountain gorges involved portion of the railway had been complemuch tunnel work and it was estimated that the ted taking the rails as far as Samaru. This was work would occupy three years. During the first the raille ad when General Manle's victorious two years of the war the tunnelling had not been army captured Bachdal and progressed to completed, but the gap in the railway was over-trailway limits. Reckoning on the sections continued come by the construction of a motor road over pleted and open for traffic, a dictance of the pass, with an efficient motor service upon it. nearly 600 miles had been furfled by the 1t was reported from Sofia in November 1916 summer of 1914 out of a total of 1,020 miles that the tunnelling had been completed and opened for traffic.

Detticate Early report issued in March, 1914, and the traffic proves had consect the ad. stated that the Balkan wars had caused the lor German undertaking "to concentrate its Turkish enterprises more than ever upon the Asiatic territories." To this end the Germans handed over their Balkan railway interes is to an Austro-Hungarian financial group "on favourable terms," and thus greatly facilitated their special direction of effort in Asia Minor and Merorotamia. According to Mehrmann's " Dirdematischer Kriegin Vorder Asien", published in 1910, some 50 iniles of a railway from Angera to Siyas and Erzerum and Kharput were completed by November of that year and further work has doubtless been carried out in this part

of the country. An agreement was reached in 1914 between Britain and Turkey, with the acquiescence of Germany, regarding the approach to the Persian Gulf. Its central provision was that the railway should not proceed beyond Rasm without not proceed beyond Basra without an agreement with Britain and Britain waived any question of her participation in the Bachdad-Basta section of the line. It was any question of her participation Baghdad-Bassa section of the line. agreed that there should be no differential rates on the railway, and in regard to the latter Britain obtained the right of appointing two directors of the railway, not for purposes of control but to guard British interests. Britain recognised Turkish suzerainty over Kowelt and Turkey recognised the independence of the Sheigh of Koweit and the continuance, unimpaired, of the existing relationship between him and the British Government. The Anglo-Turkish Agreement has not yet been published but Sir Edward Grey announced in 1914 that "we get recognition by Turkey of the sidus quo in the Persian Guil, the status quo as we have regarded it for years past." (House of Commons, June 29, 1914). A statement issued in Berlin on June 15, 1914, stated, "The Anglo-German Agreement regarding the Baghdad Ballway and Mesopotamia has oven initialled tiver tradic is likely to be interrupted in the German Agreement regarding the Balgacandry feason. The Jerablus bridge having been Rallway and Mesopotamia has one initialled completed, the railway was completed and in London by Sir Edward Grey and Prince opened on July 1st, 1914, as far as Tel Abaid, Licanowsky, the German Ambassador. A Comilies east of Jerablus. Earthwork had complete understanding has been reached diready been carried much farther. It was on all questions at lesue. The agreement reported in the summer of 1915 that 40 miles will not come into force until after the conclusion fline castward from Tel Abaid had been size of the negotiations with Tarkey, as on opined. Trackworthy reports in the artitum some material points the assent of the Porte will be negotiated that the line had cert fully been will be necessary. The contents of the Agree-



was par has aftered the whole situation. articular the British military authorities have gigal reason for this preference. The Indian the main one running ris Kurna and serving Baghdad and a branch of it reaching from Kurna

to Naslriyeb. Germany also proposed to build a line from Baghdad to Khanikin where a pass through the mountains leads into the West Persian highlands. Russia had agreed to build a rallway from Khanlkin, eta Kermanshah and Hamadan to Teheran, construction to begin within two years of the completion of the extension from Baglidad to Khanikin and then to be completed in 4 years.

Trans-Persian Line.

A trans-Persian line to join the Russian Cancasian system with the Indian Railways first assumed proportions of practical importance in the late winter of 1911. Both the survey a railway route between Katachi and Russian and the Indian railways are fully Gwadur, and found a good line with a general developed up to the points which would be the gradient of I in 250, the steepest being I in 80, termini of a trans-Persian line and the follow. Twelve of the principal Russian Banks were ing ueralis carry us up to the period of the war. The Russian railway system traches Julia on the Russo-Perian border between the Black Sea and the Caspian Sea. A line connecting with this runs from Batum, on the cast coast of the Black Sea, to Baku on the west coast of the Caspian. Incidentally, article 50 of the Trenty of Berlin provides that Batum shall be "a free port essentially commercial". The ing details carry us up to the period of the war. be "a free port essentially commercial." The Persian Foreign Minister on February 6, 1913, signed a concession to the Russian Julia-Tabriz and Enzeli-Teheran Road Companies, giving the right to construct a railway from Julia to Tabriz (93 miles) with an extension to Lake Urumiah and a preferential right to build a railway from Tabriz to Kazvin. Julia and Tabriz were at that time equipped with a metalled road, on which a motor omnibus service was maintained. The road was the property of the concessionaire company, so that sections of it could conveniently be utilised for railway construction. The work of constructing the line was thus expedited and the line was opened early in 1915. Eight years is fixed as the time limit for the extension of the line from Tabriz to Kazvin, a further distance of 250 miles. The concession runs for a period of seventy-five years. Option is reserved to the Persian Government to purchase the Julia-Tabriz line after a lapse of 35 years. The Russian Government Department of Rallways in June 1913, approved a concession to a Russian Syndicate for the construction of the line from a point on the railway close to Baku to Astara, a point on the Caspian south-western scaboard, where the Russian and Persian territories meet. More than one possible starting point for the trans-Persian Railway is therefore in course of preparation,

On the Indian side, the rallway system is tally developed up to Baluchistan, close to the Persian frontier. A broad gauge line running through Quetta to Nushki was constructed with the intention of its development for the benefit of trade which already runs by caravan

nt can, therefore, not be divulzed at present." I slan railway with the Indian railways at this In point. But the suspicious raw a stratethe connection. They insist that the line shall run either from Yerd or Kerman to the reaboard. This condition is absolute. There remains, then, a connection with the Indian North-Western Railway at or near Karnelit.

The necessary fluancial arrangements for the proliminary work in connection with the proposal, which came from Rucia, to connect the railways with Russia and India were completed in January, 1912. It was then stated that the Russian Committee were already in possession of a nearly complete survey of more than 300 miles from Astam to Telema and the length of the line from there to Gwadur on the Perso-Baluch Frontier is some 1,200 miler. Soon after this announcement, Mrr Johns was appointed by the Government of India to survey a railway route between Karachi and interested in the project and the desired amount of English and French capital was guaranteed, one English banking house having even offered to furnish the whole of the English quota-The French concerns are the Banque de Paris et des Pays Bas, the Credit Lyonnals, the So-elete Generale, the Comptoir National, the Banque de l'Union Parisienne and Count d' Arnaux.

Meetings of the international financiers concerned in the scheme were held and a So-ciete d'Etudes was formed. M. G. Raindri, formerly a distinguished member of the French diplomatic service, was selected as President, with Sir William Garstin as British Vice-President and M. Homlakoff, ex-President of the Russian Duma, as Russian Vice-President. The Society consists of a council of administration of 24 persons. The Governments of all three countries gave their approval to the enterprise and on the firm representations of the British Foreign Office a formal memorandum was drawn up providing for absolute equality of British, Russian and French con-trol in the undertaking. It was agreed that in the northern half Russian interest should be 60 per cent., French interest 33 1-3 per cent-and British 6 2-3 per cent., and in the southern half Bussian interest 6 2-3 per cent., French 33 1-3 per cent., and British 60 per cent. The total interests of the parties in the whole line would thus be equal. The French and Russian proposal was that interests should be equal for the whole line. The above arrangement was made to meet British susceptibilities.

No announcement has yet been made of the settlement of further details in regard to the line. Its general route will presumably be from Artara ria Teheran to Kerman or Yezd, and thence to either Bunder Abbas, at the entrance of the Persian Gulf, or Chabar, a point on the Mckmn Coast, about 100 miles west of Gwadur. As to the cost, £18,700,000 was the amount first declared by Russian experts as sufficient to cover the cost of construction and provision of rolling-stock for the 1,400 along the "Nushki trade route" to the Per-alon province of Seistan. The Russian Gov-ernment favoured linking up the trans-Per-experts then believed that \$15,000,000 would

be sufficient. Further investigation has led competent experts on the English side to say that the capital involved must eventually total £30,000,000 at least. The line presents no great engineering difficulties, but there would be a great variety of gradients throughout its length, the line will rise at several points to some thousands of feet above sea-level, and numerous detours will be necessary both for gradients and to serve local needs.

Central Asian Lines.
There remains the possibility of linking up the Russian and Indian railway systems by way of Afghanistan. But many strategical objections have been mised to the trans-Persian railway and these considerations are strengthened tenfold in regard to bringing the Russian Central Asian lines nearer Kabul, Russia has in fight years considerably increased her rallway facilities in Central Asia. The line from Krasnavodsk on the East Casplan shore now extends, via Mery and Bokhara and Samarkhand, to Andijan, which is some 350 miles north-west of Kasligar, the important town of Chinese Turkestan. The great network of railways in European Russia is also now di-tectly connected by the Orenburg line with Tashkent, and a connecting line links it up with the couthern railway just described. From Merv a line runs south to Kushk, on the Afghan border, within a few miles of Herat. It is reported that Russia intends building another line extending the Orenburg-Tashkent connection to Termes, a point on the Oxus 50 miles or less from Balkh, which, again, is close to the important strategical point, Mazari-Sharif. It is doubtful whether in a race, Russia, starting from Termes, or Britain, start-ing from the Khyber, could reach Kabul first. Termes, where, it is stated, Russia proposes to throw a bridge across the Oxus, is the highest point at which that river is navigable from the Aral Sea. The suggestion has often seriously been made in recent years that the Russian line from Mery to Herat should be linked to the Indian line which from Quetta proceeds to the Atghan border at Chaman. The distance between the two milheads is about 520 miles.

Britain's special interests in regard to Persian rallways have hitherto primarily been associated with lines running inland from the Persian Gulf, to supersede the old mule routes. Special importance has for many years been attached to schemes for a railway from Molammerah (at the opening of the Karun Rolley, where the Karun Rolley runs into the Shatel-Arab, just below Basra, near the Turkish border), northwards into the rich highland country of Western Persia. Britain has long established special relations with the Karun Valley and has a largh trade there. An agreement was reached between the Persian Government and the representative of a British Syndleate in February, 1913, for the construction of a railway from Mohammerah to Khoramabad, in the interior Persia offered the syndleate a two years' option, during which period the route of the line was to be surveyed. The Persian Government undertook to decide, on the completion of the survey, whether it would build the railway as a State line under contract with the Syndicate, or whether it would

grant the Syndicate a concession for the construction of the line. The Syndicate immediately began preliminary operations. Four Luglish engineers were sent out, and exactly two months after the agreement was announced they proceeded to Diziul, on the route of the line, for the purpose of making preliminary surveys. The Syndicate is composed of six groups, of which four are already connected with Persian commerce, riz., the Anglo-Persian Oil Company, the Imperial Bank, the Euphrates and Tigris Steam Navigation Company (Messra, Lynch), and the British India Steam Navigation Company. The Syndiente is prepared to undertake much more exten-sive milway construction in Southern Persia. As Russia will eventually build a line from Teheran to Khanikin, the Khormabad line will probably be linked with this line, at Hamadan or elsewhere, and Persia will thus linve two routes from the Gulf to the north. The latest reports stated that the survey work on the Melanagery work on the Molammerah-Khoramabad line was "hung up" owing to the disturbed state of the Luristan tribes around Dizful. The Persian Govern-ment agreed to a slight modification of the terms of the concession to meet the situation terms of the concession to meet the situation thus created and Sir E. Groy stated in the House of Commons that "every effort will be made to proceed with survey as soon as the situation in Luristan appears to the responsible authorities to justify such a step.... It is contemplated that the Swedish gendarmeric which has done very good work recently in other parts will devote their attention to Luristan with the object of pacifying that part of the country as they have done in some other parts." As a result of repeated Anglo-Russian applications the Swedish Government permit-ted General Hjalmarsson, the head of the Persian gendarmery, to return to Persia in November, 1914. The war resulted in great unrest and in treachery on the part of the Swedish gendarmerlo officers, as a result of German instigation, in Western Persia. The Persian Government dispensed with the services of the Swedes and nothing further has been reported about progress with the Karun Valley line.

Period of Transit.

It is commonly eaid that the Trans-Persian railway would bring India within eight days of London. The possibility was demonstrated by the performance of a party who travelled from London to Persia in 1014 and sent the following details of their journey to the Times. The party left London by the 8-25 p.m. train on a Saturday and arrived at Baku at 10-20 p.m. (London time, say, 7-39 p.m.) on the following Thursday, and at Enzeli, on the south-west shore of the Casplan, (reached by steamer from Baku), at 6 a.m. on the following Baturday,—that is, within six and a half days from London. They travelled ria Folkestone, Flushing, Berlin, Warraw, Snamenka, Rostoff and Besian, and were detained at Warsaw some ten hours and at other points a full 12 hours more, thus reducing the actual travelling to 51 days, which was a "record." There remained, at the end of their journey, only the trans-Persian stage, which it is hoped to cover by the new line, so that an express service from London to Delhi ought to be easily possible within the eight days.

Foreign Consular Officers in India.

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Mr. C. W. Rhodes		••		Vice-Con•ul	••		Calcutta.	
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The Army.

poons, enrolled for the protection of the facbories of the East India Company; but sepoys
were first enlisted and disciplined by the French,
who appeared in India in 1665. Before this,
detablication detachments of soldiers were sent from Eng-land to Bombay, and as early as 1625 the first fortified position was occupied by the East India Company at Armagon, near Masulipatam. Madras was acquired in 1640, but in 1654 the garrison of Fort St. George consisted of only ten men. In 1661 Bombay was occupied by 400 soldiers, four years before the French appeared in India. In 1668 the garrison of Bombay consisted of 285 men, of whom only 93 were English, the remainder being French, Portuguese and natives.

While the origin of the regular sepoy army is usually dated from 1748, when Stringer Lawrence, "the father of the Indian Army," enrolled an Indian force in Madras, it is interesting to note that there was a considerable military establishment in Bombay prior to that date. In 1741 this establishment, which unst onte, in 1/41 this establishment, which was considered as one regiment, consisted of a captain, nine lleutenants, fifteen ensigns, a surgeon, two sergeant-majors, 82 sergeants, 82 corporals, 28 drummers, and 310 European privates, together with 31 "masters" (probably Eurasians) and 900 topasses—presumably Goanese, These were distributed in the corporation of the stable processing the stable process. seven companies, their total monthly pay being 10,314 rupees. There was in addition a kind of native militia, composed of 700 sepoys in-cluding native officers. These were maintained at a monthly cost of 312 rupees. They were not equipped or dressed in a uniform manner, not equippled their own weapons—swords and shields, bows and arrows, pixes, lances or matchlocks. After the declaration of war with France in 1744, the forces at Bombay were considerably increased, and an artillery company was raised. Already in 1740 the French at Pondicherry had raised a large force of Musalman soldiers, armed and equipped in the European fashion; and the fall of Madras, which the French captured in 1746, induced the English East India Company to begin the formation of a military establishment of like nature. In January 1748 Major Stringer Lawrence landed at Fort St. Dayld to command the forces of the Company. English foothold in India was then precarious. The French under Dupleix were contemplating further attacks; and it became necessary for the English Company to form a larger military establishment. The new commandant at once set about the organisation and discipline of his small force. The garrison was organised his small force. The garrison was organised in seven companies; and the peons, or factory guards; were also formed into companies. This was the beginning of the regular Indian Army, of which Lawrence eventually became Commander-in-Chief. In Madras the European companies developed into the 1st Madras Fusillers; similar companies in Bombay and Bengal became the 1st Bombay and 1st Bengal Fusillers. The native infantry was similarly developed and organised by Lawrence and Clive; who was his contemporary, and military. Clive, who was his contemporary, and military adventurers-both Musalman and Hindu-

The great sepoy army of India originated in readily took service under the East India the small establishments of guards, known as poors, enrolled for the protection of the factories of the East India Company; but sepoys which arrived in 1754.

Struggle with the French.
From this time for a century or more the Army of India was engaged in constant war. After a prolonged struggle with the French, whom Dupletz had by 1750 mised to the position of the leading power in India; the efforts of Stringer Lawrence, Clive and downfall of Coote completed the Eyre Coore completed the downlat of their rivals, and the power of England was established by the battle of Plassey in Ben-gal and on the field of Wandewash in Southern India. In 1761 the final overthrow of the French was completed, and the terri-tories of that enterprising people were reduced to a few settlements on the coast, the principal of which, Pondicherry, was captured in 1793. But while the Army of India had accomplished this much, they had now to contend with the great native powers, both Hindu and Mahome-A number of independent states had arisen on the decline of the Mughal Empire, some ruled by the satraps of the Emperor of Delhi and others by the Mahratta princes who had succeeded to and extended the conquests of Sivaji; while in Mysore Hyder Ali, a Mussalman adventurer, had established himself in the place of the Hindu Raja. A great and prolonged struggle took place with the ruler of Mysore, in which the forces of the Crown and the Company's Army bore a distinguished part. This struggle extended over nearly twenty years, and terminated only with the death of Hyder's son and successor Tipu when his capital

Presidency Armies, extension of British territory had The necessitated a corresponding augmentation in the strength of the armies of Bengal, Madras and Bombay, which were entirely separate organisations, as rendered requisite by the great distances and independent territories by which they were separated. But Bengal and Bombay troops had taken part in the wars in Southern India, although the brunt of the fighting had fallen on the Madras Army. These armies had grown both in strength and efficiency. In 1787 the Governor-General, Lord Cornwalls, wrote to the Duke of York—"A brigade of our sepoys would make anybody emperor of Hindustan. The appearance of the native troops gave me the greatest satisfaction; some of the battallons were perfectly well-trained, and there was a spirit of emulation among the officers; and an attention in the men, which leaves me but little room to doubt that they will soon be brought to a great pitch of discipline." great distances and independent territories by

of Seringapatam was taken by assault in 1799.

Reorganisation of 1796.

be brought to a great pitch of discipline."

In 1796, when the native armies were re-organised, the European troops were about 13,000 strong; the native troops numbered some 57,000, the infantry being generally formed into regiments of two battalions each. In Bengal native infantry regiments were formed by linking existing battalions. The establishment of each two-battalion regiment was 1 colonel commandant, 2 lieutenant-colonels, 2 majors, 8 captains,

mutiny. There were many signs and portents typical also of the greater rebellion. officers had become estranged from their men and lived too much apart from them. The and need too much apart from them. The native troops suddenly broke out and killed the majority of the European officers and soldlers, their wives and children, quartered in the fort, while the striped flag of the Sultan of Mysore was raised on the ramparts. But if the parallel so far is close, the method of dealing with the outbreak of 1800 differed widely from the weakness displayed at Mecrat in 1857. There was happily at the neighbouring station of Arcot a soldier of energy, decision, and courage both moral and physical. Colonel Gillespie with the 19th Light Dragoons and galloper guns came down upon the muti-neers like a hurricane, blew in the gates of the fort, destroyed most of the sepoys, and in the course of a few hours suppressed the rebellion. This retribution struck terror into the hearts of other would-be mutineers and disaffection, which was rife throughout the Madras Army, did not elsewhere find active expression.

Overseas Expedition.

Almost as dangerous was the mutinous discontent excited among the British officers by the ill-advised measures of Sir George Barlow, unfortunately acting temporarily as Governor-General in 1809, which was with difficulty quelled by the tact of wiser and more considerate men. It was not only within the confines of India that the Army distinguished itself divides the paried andie

formed mostly from the military adventurers who had been employed by native potentates, had established themselves in strongholds on the banks of the Narbada river, from whence they issued to plander the country from the end to end. These people had become so formidable that a large army but to be assumbled for their destructions. had to be assembled for their destruction, for they viewed with dismay and opposed with force the establishment of effective power in the land where they had so long carried on with impunity their lawless modes of life. To cope with this growing evil, armies were to close in from every direction on the fastnesses of the Pindaris. At the same time a watch

pared to take up arms once more. The cally the whole of the Army took the field, men all India was turned into a vast camp. experiences of 1817 differed in no wise those of 1800, except that resistance was stubborn as the brightes of the Europ military adventurers no longer existed in Mahratta armies. The Chiefs of Poona, 1 Mahratta armies. The Chiefs of Poona, I pore, Indore and Gwalior rose in success At the battle of Kirkee, where the tramp the myriad Mahratta horse shook the earth, they were beaten off by one-tentl their numbers after a feeble attempt to char native regiment. At Koregaum where the tachment under Captain Staunton offered so ant a resistance to the attacks of a va superior force, the Arabs alone fought on side of the Mahrattas, 20,000 of whom si idle on the plain. At Sitabaldi a few i ments of Madras native infantry beat of attacks of the army of the Raja of Nagr and victory was assured by the charge troop of Bengal cavalry. At the battle Mahidpur the hosts of Holkar melted like s from the face of the desert before the d mined one laught of a small army of Br and native troops. This was the last wa Southern India. The tide of war rolled to north, never to return. In the Punjab, to borders of which our frontier was now exten the Army was to meet in the great mill community of the Sikhs, a braver and i virile foc

within the confines of anomalistinguished itself during the period under review. Expeditions were made beyond seas. Bourbon was taken from the French; Ceylon, Malacca, and the Spice Islands were wrested from the Dutch; and Java was conquered in 1811 by a force largely composed of Bengal troops which had volunteered for this service. In 1814 took place the Nepal War, in which the brave Gillespie who had so distinguished himself at Vellore and in Java, was killed when leading the assault on a fort near Dehra Dun. This war is chiefly of interest from its having introduced us to the Gurkhas, inhabitants of Nepal, who form so large and efficient a portion of our Indian Army.

In 1817 hostilities again broke out with the Mahrattas. The primary cause of the Mahrattas. The primary cause of the Mahrattas, a military system of the Mahrattas, the troopers furn their own horse and equipment, as do received. Reorganisation in 1824. The irregular and local corps had each

> First Afghan Wor. In 1839 the occupation of Afghanistan undertaken, Kabul was occupied, and a Army stationed in this country beyond Indus. There followed the disasters of K the murder of British envoys, and the re in which a whole army perished. This dis was in some measure retrieved by subseq operations, but it had far-reaching effec the morale of the Army and on British pre-

two or three European Officers.

The Sikhs.
The people of the Punjab had with had to be kept on the Mahratta States, whose from afar the disaster of the retreat rulers, encouraged by the feeble policy that Kabul. It is true that they had had followed when the strong hand of the also the advance of the victorious army, Marquis Wellesley was removed, were pre- the triumph of its return which was celebi

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dition and the greatness of a name caused to be venerated by Mussalmans throughout India And in the Bengal Army political agitators found a fertile soil for planting the

seed of corruption. The infantry of that army had in its ranks a great majority of Oudh sepoys; while men of the same race formed the bulk of forces such as the Gwalior Contingent, maintained by Native States under the terms of treaties while they supplied the greater part of the Cavalry of that Presidency. It will thus be understood that in both armies there was a dangerous preponderance of one class, facilithe men true to their salt. In that Presidency ignored by those in authority. the sepoy had in almost every instance a large number of relatives living with him. He was not likely to abandon these relations to their fate, and mutiny against the Government the Served. The Presidential system, in fact, offered an effective safe-guard in the "water-offered an effective safe-guard in the "water-armies from intermingling. There was not is any no sympathy but some antagonism between the different armies; and on one occative the different armies; and the northern and southern Presidencies were serving together, and European sergeant-major of his regiment. On the 29th March, sepoy Mangal tween but be sufficient to irritate their brethren by calling them. Bengalis" which was regarded as an opprobrious term, applicable properly to a compression when regiments. While has never trackpore, and the 24th April eighty-five men of the 3rd Bengal Cavalry refused to take the new cartridge. They were tried and senderation of his country, the Muhammathale and unwarlike race which has never trackpore attacked and wounded the Adjutant ern Presidencies were serving together, and European sergeant-major of his regiment. On the 29th March, sepoy Mangal tween the 24th April eighty-five men of the 3rd Bengal Cavalry refused to take the new cartridge. They were tried and senderation of his country, the Muhammathale and unwarlike race which has never trackpore, and there dishanded on the 31th Bengal Infantry at Barrance and European sergeant-major of his regiment. On the 29th March, sepoy Mangal tween the 24th April eighty-five men of the 3rd Bengal Cavalry refuse the sepoy had in almost every instance a large. number of relatives living with him. He was

annexation of Oudh was a severe shock to the at the instigation of a few political intriguers annexation of Oudh was a source snock to the a state magnitude. The seeds of disaffection had susceptibilities of the feudal nobles of that and agilators. The seeds of disaffection had province, from which it must be remembered long been growing in the Bengal Army. The large portion of the Bengal Army was redisasters of the Afghan War had taught the province, from which it must be remembered province, from which it must be remembered disasters of the Afghan War had taught the disastering portion of the Bengal Army was recreited. There were thus political causes of disastection in India apart from the constant presence of racial difference, lostered by political agitators and a seditious press. There were finder and States ripe for rebellion: on mercenary forces. There were in the country only some 33,000 British soldiers, while while on the throne of the Mughals at Delhi try only some 33,000 British soldiers, while the native troops numbered 200,000 men, there sat the shadow of a monarch whom traexclusive of the numerous levies of independent or semi-independent princes. A great establishment of native artillery had grown up. While the Bengal sepoy had deteriorated in morale, he had cause for discontent. He had been alternatively pampered and abused. The grant of extra allowances on all occasions for field service, had in the first place excited his cupidity; their withdrawal had aroused his discontent. He feared that attempts were being made to destroy that attempts were being made to destroy with the British Government. A small per that attempts were being made to destroy centage of Mahomedans of Hindustan was his caste and subvert his religion, the points also to be found in the Bengal Native Infantry, on which he was most sensitive. There was too much centralisation of power in the hands of the military authorities at Army Headquarters. The proselytising spirit was abroad, and some amiable but fanatical officers preachusing rous preponderance of one class, facili- and some amiable but function oncers preacttating and extending combination on the ed their religion about the country. The crupart of the disaffected. It was different with clai question of the greased cartridges brought
the armies of the other Presidencies, which matters to a head. With a great deal of reason
were entirely separate from the Bengal Army, the sepoys complained of the new cartridge;
and under their own Commanders-in-Chief, the paper of which was greased with animal
and where men of every caste and creed were
fat, said to be that of swine and oxen, the
mingled in the ranks, a system which obviated former abhorrent to Musalmans, the latter
the likelihood of combination among men area. the likelihood of combination among men ever sacrilegious to Hindus. The mysterious un-prone to be suspicious of one another. There leavened cakes were circulated, and while were in the Madras Army family ties to keep their significance was realised by some, it was

Course of the Rising.

place and in the effects. An army was about a surface and a companion of the recovery of Delhi, which remained loyal under the strong hand of John Lawrence. The British columns having detected the rebels who opposed them at Badillarial out by the organisation of a Staff Corps remained loyal under the strong hand of John Lawrence. The British columns having de-feated the rebels who opposed them at Badil-ki-Saral, arrived before Delhi on the 8th June, and began the long senge which terminated with the capture of the city in the middle of September, when the herofe Nicholson fell in the hour of victory. Meanwhile the mutiny had spread to other corps of the Bengal Army. The native troops at Cawnpore rose on the th June, massacred the Europeans of the Garrison who surrendered on the 27th, while the women and children were butchered on the 15th July, the day before Havelock's relieving column defeated the Nana and entered Cawmpore. There was mutiny at many other places during this period not only at stations north of the Jumna, but in Central India, and in Rajputana, where the disaffected troops of the Grailer Contingent were stationed of Gwaller Contingent were stationed at Gwalior, Necmuch, Nasirabad and other cantonments. At Jhansi a general massacre took place, when the Europeans unwisely took place, when the Europeans unwiscoy surrendered to their pitiless foe. Throughout Bundelkhand and the Central Provinces the wilder spirits of the country rose and banded with the mutheers. With few exceptions the Bombay Army remained loyal, as did the Mindras Army and the Hyderabad Contingent, although there were some isolated out-breaks at Hyderabad and at Sholapur. But generally speaking the rebellion did not spread south of the Tapti River. On the 30th September the troops at Lucknow rose, and there began the long and glorious defence of the Residency by the belenguered garrison under Sir Henry Lawrence; Lucknow was relieved by Have-lock and Outram on the 27th September, but the rebel hold on the defenders was not relin-quished until Sir Colin Campbell advanced and drove off the mutineers with terrible slaughter two months later. Having relieved Lucknow, Sir Colin Campbell marched to Cawnpore, where General Windham had been driven into the intrenchments, and was with difficulty holding his own against the Gwallor Contin-gent under Tantia Topl. On the 6th December 1857, Campore was relieved, and the rebels retired on Kalpi. It was not until 1858 that the small army under Sir Hugh Rose, the most skilful and enterprising leader of those times, marched through Central India, relieving many belengured places, fighting many pitched battles, and avenging the massacro of Jiansi in the storm and capture of that place, at the capture of Kalpi, and at Gwallor where the Rani of Jhansi was killed at the head of her troops, and Sindia was restored to the capital from which he had been expelled.

Reorganisation after the Mutiny.

When the country had been pacified, the Government of India was assumed by Queen Victoria, and the East India Company ceased to exist. The Company's European regiments were exist. The Company's European regiments were transferred to the crown, and a regular system of relief of British regiments employed in the Army was improved by the climination India was instituted, the charges being paid out of the Indian revenues. The Bengal Army had almost disappeared; and while a new army was raised in that Presidency, the Madras of more virile races. "Class" troops and

place and in the streets. An army was at and Bombay armies were also reorganised for each Presidency, on which the officers were all borne on a general list and supplied to regiments and to the staff. On completion of the reorganisation in 1863, the armies had the

following strength:—
Bengal Army—19 Cavalry and 49 Infantry regiments.

Madras Army-4 Cavalry and 40 Infantry regiments. Bombay Army-7 Cavalry and 30 Infantry

regiments. Punjab Frontier Force-6 Cavalry and 12

Infantry regiments, Hyderabad Contingent—4 Cavalry and 6

Infantry regiments.

Other Local Corps—2 Cavalry and 5 Infantry regiments.

The total strength amounted to 140,000 men; and there were in India 65,000 British soldiers. The regiments were officered by a reduced cadro eventually fixed at eight British officers to each corps, except that the Hydera-bad Contingent and other local corps had an establishment of four only. The promotion of officers was made dependent on length of service, 12 years to Captain, eventually re-duced to nine years, 20 years to Major, reduced to 18 years, and 26 years to lieutenant-colonel, The Staff Corps system, which still continues in fact though not in name, has the disad-vantage that it entails the frequent transfer of officers from one corps to another. officers to each corps, except that the Hyderaof officers from one corps to another.

Minor Campaigns.

During period succeeding the the mutiny, until Afghan War 1879, when the until second began, there Were many minor campaigns, including the Ambeyla expedition, the China War of 1860, and the Abyssinian War, when Kapier of Magdala, who had fought in the Sikh Wars and in the Mutlny, commanded the expeditionary army. There followed the Aighan War, in which the leading figure was Lord Roberts. There were expeditions to Egypt and China, and various frontier campaigns, the most important of which was that on the North-West Frontier in 1897, since when that turbulent country has been generally quiet. There were also the prolonged operations following on the annexation of Burma, reveral campaigns in East Africa and Somalland, and the expedi-tion to Liasa. But since the Afghan War the Army of India, except that portion of the British garrison which was sent to South Africa, has had little severe fighting, although engaged in many arduous enterprises.

Reforms. which began in 1885 The twenty years reforms witnessed many and augmentations of the Indian Army, due to prepara-tions to resist the menace of the Russian ad-

casto and creed being mingled in the ranks and in some cases class regiments were raised. But it is generally held that, it is butter to form regiments of class companies and troops, although the class regiment has its advocates among those who hold that such an organisation incilitates segregation in case of trouble. In 1887 we find the British Army in India numbering about 74,000 and the Indian Army 153,000 men. In 1893 Indian battalions were grouped in threes, each with a regimental centre, and reserves for the native army were these have been gradually auginstituted: mented until the establishment numbers 25,000. In the following year Imperial Service troop, to be placed at the disposal of the British Government in case of emergency, were raised in Native States. These number 21,000 men officered by Indians and having Inspecting officered by Indians and having Inspecting officers furnished by British Officers of the Indian Army. In 1891 the Staff Corps of the three Presidencies were amalgamated, the first step in the abolition of the Pre-idency distinctions, furthered two years later by the abolition of the appointments of Commander-in-Chief of the Madras and Bombay Armies. While the fighting strength of the Army had been augmented and improved during all these years, the administrative services had not been projected. The Supply and Transnot been neglected. The Supply and Transport services were improved and the Ordnance and Military Works were reorganised, and measures were taken for the improvement of defences, mobilisation and equipment. Changes were made in regimental organisation, and the pay and allowances of the troops; were raised from time to time.

The number of British officers has been augmented at intervals. The establishment in the native infantry formerly consisted of a Commandant, two Wing Commanders, and five Wing Officers. In 1900 the Double Companies being placed under a Double Company commander, the Wing Commanders being abolished. The establishment of regiments now includes 13 or 14 British officers, squadrons and companies being commanded by native officers, of whom there are 16 in a regiment, Risaldars and Subadars commanding troops and companies, while Jemadars are their subalterns.

Lord Kitchener's Work.

The most momentous changes that have taken place in the Indian Army since the postmutiny reorganisation were carried out under the regime of Lord Kitchener, who assumed the office of Commander-in-Chief at the end of 1992. When Lord Kitchener arrived in India, the Commander-in-Chief had only executive command mander-in-chief and charge and of the Army, with an Adjutant-Ceneral and a Quartermaster-General as his Chief Staff Officers. There was no General Staff, the Staff of the Army in India being divided between the departments of the Adjutant-General and Quartermaster-General. The administra-tive departments of the Army were under the

A companies were formed instead of men of every | measures involving expenditure and to be submitted to the Financial Department through the Military Department, which had entire control also of the Supply and Trangent, Ordnance, Military Accounts, Remount and Military Works Departments. The conse-quence was frequent differences of opinion between the Military Department and Army Headquarters.

> Lord Kitchener organized a General Staff, and established a Staff College at Quetia for the training of officers in the regulate duties; a Chief of the Staff was appointed, and the proper division of the work of Staff Officers was made, there of the General Staff being made responsible for the branch dealing with the Art of War, including the training of troops while routine and administrative duties were undertaken by officers of the Adjutant-General's and Quartermaster-General's 18 partizents.

On arrival in India Lord Kitchener found that the military system, originally constituted on sound lines, had gradually departed from the intention of its founders, and much of the power properly belonging to the Com-mander-in-Chief had been usured by the Military Department, while a succession of conomical Finance Ministers had so cut down the military estimates and held the purse-strings so tightly that it was impossible to force through any costly measure for the de-fence of the country. The military choice which was the stay growth of a bundled and which was the flow growth of a hundred and Ofty years of constantly changing conditions required remoulding into an orderly cosmos. The army was in many respects, with its want of proper organisation for external war, its ponderous and antiquated administrative symtem, its faulty distribution in units scattered on no known strategical plan, more sulted to the circumstances of a bygone age, when the country had only recently been conquered and troops had to be retained at remote and pany system was instituted, each pair of com- tenlated stations to overnwe the inhabitants. While the Commander-in-Chief was a strong and determined man with a genius for organisation, the Viceroy was also a great personality, holding strong convictions, and naturally a champion of the civil power. Lord Kitchener wished to remove the obstruction of the Miltary Department. Lord Curzon could brook no weakening of the power of the Civil Government. The question was not merely one of the abolition of a Department which had grown obsolete in its methods. It was a ques-tion of the status of the Chief Military Authority in the country.

Military Department Abolished.

On the recommendation of a Committee composed of Lord Roberts, Sir George White and Sir Edward Law, the Military Department was abolished, and the Military Supply Department established in its place in 1905. Lords Curzon and Kitchener again came into conflict regarding the personnel of the new Department, and the former resigned. The Commander-in-Chief now ect about the task of reform. He had since his arrival in India been studying the situation, reviewing the state Military Member of the Governor-General's been studying the situation, reviewing the state Council, of which the Commander-in-Chief was an extraordinary member. The condition of affairs was not satisfactory. The proposals of the Commander-in-Chief regarding nated the situation as it had done for the best part of a bindred years. Under the old chaotic wide area of country. The nine divisions existen the mobilities scheme provides for were distributed between two armies, each the depetch of two armies, one through the with its Commander, their heads resting on klayler, the other by way of Costa to Kan the mile routes at quetta and Perhawar. ditter. From the North-West alone, whence the conquerket leader of all the handers where mixth is re-crife i in history had poured from time immemorial, was the Empire of India subject to measee from without,

But under the system then existent the measures arranged for defence provided for a fire of only four Divisions of all arms. This force was not only tradequate in numbers but to capacity for capacitan. Its distributhen and encantration were more rulted for policing internal India than to contend with an external for. The troops were distributed in Districts under generals whose commands vere geographical in designation and in area. Here were no complete Army Corps, Divisions, and Brizades ready to take the field. In case of war the troops for the field army were to be drawn from all parts of India, the various units being sorted out into Brigades and Divisions on arrival at the base of operations, and provided with a scratch lot of generals and staff officers for the occasion.

Army Re-distributed.

It was in the reorgani-ation of the scattered and heterogeneous forces of the Indian Empire that Lord Kitchener's great work lay. Some steps had already been taken towards the abellition of those Presidency distinctions the abolition of those Presidency instinctions which formerly divided the Indian native forces into three armies supplemented by a congries of local forces. But he found three armies, each confined to its own geographical limits, beyond which its units and its personnel did not ordinarily proceed; or when they did, they carried the chains which linked them to their respective Presidencies. The units of the Indian Army were renumbered, a fruitful the indian army were renumbered, a fruitui cause of confusion being thus eliminated; Presidency and local distinctions were abolished, and a homogeneous army, though composed of heterogeneous races, free to benefit by the experience of service in any part of India, was created. The experience of 1857 proved the measure of safety provided by the resolderful extern of three semics with nothing presidential system of three armies with nothing in common between them; but the new re-gime considered that the conditions of fifty years ago were obsolete, and had been entirely changed by increased facilities and rapidity of communication throughout the Empire.
The whole army was formed into nine Divisions, exclusive of the Burma Division, each

with its proper complement of the three arms, under its General with staff complete. These Divisions were organised for war; each one could take the field intact, leaving behind sufficient troops for the maintenance of internal order. Arrangements were made for the organization of supply and transport. The reserve was not sufficiently large to supply reserve was not sumeently large to supply the wastage of war; it was expanded, the infantry reserves being augmented, while the cavalry was included in the system. Small and isolated stations were by degrees abandoned, the Divisions, or at least the Brigades, being assembled with a due regard to strate-gleal requirements and to the necessities of training, though some are extended over a

The Military Supply Department, with Its Member on the Governor-General's Council, Member on the Governor-trenerars council, was abolished in due course; an Army Department was created, to deal with much of the business carried on by its predecessor, with a Secretary in Charge. The Commander-in-Chief is now the only Military Member of Council, and it is a question whether he has not a burthen greater than one man can bear, The recommendations of Lord Robert's Committee have been ignored, for that Committee recorded the opinion that "the concentration of the whole responsibility of Supply of the Army under one head, if that head is to be the Commander-in-Clifer, would be opposed to all modern principles in regard to Armies."
It was feared that the system now obtaining would lead to the diversion of too large a portion of the time of the Commander-in-Chief from his natural military duties; and it cer-tainly appears that the functions and status of that high officer have largely aftered.

Indian regiments are numbered consecu-tively, the infantry from 1 to 130, the cavalry from 1 to 30. They have subsidiary titles based upon their composition, their territorial origin, or the names of distinguished officers with whom they were connected.

British troops are periodically relieved from England and the Colonies, regiments ordi-England and the Coionies, regiments oran-narily being some fifteen years in India, where they are kept on a war-footing by drafts sent from the regimental depots. Native troops consist of every warilke class, a great variety of races being found in the ranks. Gurkhas of races being found in the ranks. Gurkhas and Sikis to a great extent, are organised in class regiments. There are Rajputs of both Oudh and the United Provinces; Jats, Dogras, Mahrattas, Pathans, Baluchis and Hazaras. Mahrattas are enlisted in Regiments of the old Bombay Army; Mahomedans from the south of India and from Hindustan are found in the ranks of mare corps, and most of the in the ranks of many corps, and most of the Frontier tribes furnish their quotas.

The native officers generally rise from the ranks, but some are given direct commissions, although this system has not been largely adopted. The volunteers form a valuable and efficient body of men, who would be most useful in emergency, having a good knowledge of the use of arms and furnishing some of the

bet shots in the country.

The Military Police is largely composed of warline races, especially in Burma, which is mainly garrisoned by these corps, while in Central India the abordinal Bhils find employment in the ranks. These, however, though a ureful auxiliary, do not form part of the Army, and serve under the orders of the Civil Government.

The Divisions of the Army are distributed as follows, their headquarters being at the Stations indicated.

Northern Army. Headquarters-Murree. · 1st Division Peahawar .. 2nd Rawal Pindi 93 .. 3rd Lahore •• 7th Mecrut ..

Lucknow

Indian Brigades. Derajat Brigado Dera Ismall Klian

Bannu Brigade Bannu Southern Army. Headquarters-Ootacamund.

4th Division Quetta Mhow 5th Poona 6th Ωth Ootacamund Burma Division Mandalay

Services of the Sepoy Army.

The history of the Army of India has now been traced since its inception down to the present time. The military history of the world pretents no more remarkable spectacle than that of the great army of soldiers of fortune which, led by a few British officers, has carried our flag into every corner of the Lastern Hemisphere into every corner of the Lagren Hemisphere during the part hundred and fifty years. Soldiers by birth and breeding the sepoys of Hindustan and of the four quarters of India have served the Empire from Northern China to Ceylon, from Egypt to the Islands of the Eastern seas, in Belgium and in France. In the conquest of India tizelf, in seconding the release of a hardful of British calling the valour of a handful of British soldiers, they have borne a conspicuous pare inen warnen who opposed us so courageously in warsikhs, Gurkhas, Pathans of the North-West
Prontier, Jats and Rajputs—have fought with
no less valour in the ranks of our army. They have borne a conspicuous part. The very no less valour in the ranks of our army. They sailed to the conquest of Bourbon, Mauritius and Java. With Cornwallis and Harris they traversed the passes which led them to Mysore and Seringapatam. Under Stringer, Laurence, Clive, Eyre Coote, Lake and Wellesley they helped to oust the French from Southern India. The great theatre of war in which they fought was diversified by every physical feature and characterised by considerable, varieties of climate. From Chitral to Makran our soldiers have followed in the footsteps of Alexander the Great. On the banks of the Hydaspes, on the very the Macedonians defeated ground where two defeated Porus thousand years before, they fought the battle of Chillianwala against the Sikhs, who have themselves since been among the bravest coldlers of our army. Every pass on the frontier traversed by the invaders of old contains the bones of brave men who have fallen the East. They have carried the flag to Cabul, the Last. They have carried the hag to Cabut, new conditions, and in peculiarly trying circumstoned to Cairo, to Lhasa, to Peking, to Ava and to stances you have worthily upheld the honour of Mandalay. Sepoys accompanied Baird, and the Empire and the great traditions of my army eighty years later Wolseley, to the Nile. The in India. dark page of the Mutiny is itself illumined by "I have followed your fortune with the many gallant deeds performed in our service by deepest interest and watched your gallant the native soldiers of the Empire. Lucknow was not defended by Europeans alone; among the bravest men on the Ridge before Delhi were men of Indian races; in the glorious campaign in Central India 1858 the wings of Sir Hugh Rose's Army were composed of native cavalry; the motiny vecterans who tottered into the arena at the Coronation Durbar at Delbi had in their ranks many soldiers of native races. diers of native race.

The Army and the War.-In 1914, when the

man, British and Indian, to the service of the Ral, and a great force of all arms, estimated to reach 200,000, was despatched to the seat of war in France and Belgium, in Last Africa, Egypt, Turkish Arabistan and Shantung. The Force in France constituted the only trained reserve available in the British Emplee at the time. Its services therefore must be measured not only by what it did, but by the fact that it was the only force available for the duty. It took part in some of the hardest fighting, and this in the strange conditions of the cold, the wet and the mud of Flanders, in trench fighting, which was even more strange to the Indiantroops than to those of the European armins, and under artiflery fire which subjected them to an unprecedented strain. The gradual strengthening of the British forces and the pending advent of another winter induced a iresh consideration of the employment of these troops in France, and towards the close of 1915 It was decided not to subject them to the ordeal of another compaign in the European winter. The Indian Expeditionary Force was therefore withdrawn, with the exception of the Cavalry Division. It was re-conditated in Exprt and distributed for service either in India or on some other part of the battle front. One cavalry brigade was subsequently withdrawn. Before the Ferce left France, his Majesty the King-Emperor sent the following message, which was delivered by the Prince of Wa'es on November 21 and subsequently issued in the form of a communique :-

" Officers, non-commissioned officers and menof the Indian Army Corps,-More than a Year ago, I summened you from India to fight for the ago, rathing and the honour of my piedged word on the battle-fields of Belgium and France. The confidence which I then expressed in your some of duty, your courage and your chivalry you have since then nobly justified. I now require your services in another field of action, but before you leave France, I send my dear and gallant son, the Prince of Wales, who has shared with my armies the dangers and hardships of the campaign, to thank you in my name for your services and to express to you my satisfaction.

" British and Indian commdes in arms, yours in our service. The rude mountainers of the has been a fellowhip in toils and hardships, in frontier have eagerly entered the ranks of courage and endurance, often against great our army. Beyond the limits of India our odds, in deeds nobly done in days of an ever-soldiers have entered most of the capitals of memorable conflict. In a warfare waged under new conditions, and in peculiarly trying circum-

"I have followed your fortune with the deepest interest and watched your gallant actions with pride and satisfaction. I mourn with you the toss of many gallant officers and men. Let it be your consolution, as it was their pride, that they freely gave their lives in a just cause for the honour of their soverign and the safety of my Empire. They died as gallant soldiers, and I shall ever hold their sacrifice in content to mean the safety of my Empire. They died is gallant soldiers, and I shall ever hold their sacrifice in content the mean them. grateful remembrance. You leave France with a just pride in honour of the deeds already achieved and with my assurance of confidence The Army and the War.—In 1914, when the Great War broke out. H. E. the Viceroy, speaking on behalf of the whole country, pledged every action to which you go. I pray God to bless and much you and to bring you back cafely when the fillulations were almost after

Lord French's Tribute. The meaner which Victoria Irrach feeted to the Indian Corps was officially published in India, some SX months later than that of the King. Lond French describes the Britteli troops of the correas Laving borns themselves in a manner worthy of the leat traditions of the Army,

The Indian (room the adds) have shown most properties courage under novel and frying conditions, both of climate and of fighting, and have not only upheld but added to the good name of the Army which they represent. is all the more praise worthy in view of the heavy les a among the British officers which deprived the Indian ranks of many trusted leaders whom they knew will, and of the fact that the drafts necessary to maintain your strength have frequently had to be drawn from regiments quite inconjected with the units they were sent to reinforce. You have done your work here well

I thank you for the service's you have rendered while under my command, and trust that the united efforts of the Allies may soon bring the enemy to his knees and restore peace

to the world.

A no less emphatic tribute, and one taking a wider sweep, was paid by the Secretary of State for India, when presiding at the lecture of Sirdar Daljit Singh, of the India Council, upon the Sikhs at a meeting of the Indian Section, Royal Society of Arts.

Mr. Chamberlain said that the Indian Army had served for the first time in a great European War; it had been employed not only in Prance, but in Egypt, in Gallipoli, at Aden, in East and West Africa, and in Mesopotamia. Wherever there had been work to do and stout hearts had been needed. India had sent her sone to play their part with the men of other portions of the Empire in defence of their Sovereign's Crown and of the liberties of the Empire to which they belong.

Statement by Lord Hardinge.—In July 1917, Lord Hardinge made a statement in the House of Lords showing the extent of the expeditionary forces sent from India. He said:-"In August and the early part of September an Indian Expeditionary Force of an Indian army corps of two divisions, under the command of General Sir James Willcocks, and one cavalry division was sent to France, and a second cavalry division was sent to join this force in the following November. It may be of interest to remark here that the theatre of action of these splendid Indian divisions was, in the interes spienate indian divisions was, in the first instance, restricted to the Mediferranean garrisons and the Sudan, and it was due to the insistence of the Government of India that they were sent to France, where they arrived in time to fill a gap that could not otherwise have been filled, and there consecrated with their blood the unity of India with the British Implies and their locality to the King Expanse.

mobilised. In than Victory is win each to his own home. September, 1914, by the order of his Majesty's there to be welcomed with honour amount his diovernment, a mixed division of troops was composely." sent to East Africa, the co-operation of India with this force being limited to the supply of personnel, transport, equipment and ships, in October and November 1914, two divisions of Indian infantry and one brigade of cavalry were cent to Egypt. It was not till September, 26, 1014, by which time eight divisions had already been mobilised and sent either abroad or to the frontier, that the possibility of action at the head of the Persian Gulf was foreshadowed by the Secretary of State, and It was on October 31 that, Turkey having entered the war against us, hostilities commenced with the seizure by an Indian brigade of the mouth of the Shatt-el-Arab. This brigade was reinforced to the trength of a division before the capture of Basra on November 23 and in three months' time increased to an army corps of two divisions. Of these 10 divisions of infantry and two divisions and two brigades of cavalry, enumerated above, seven divisions and all the cavalry were sent overseas. But in addition to these organised forces 20 batteries of artillery, and 32 battalions of British infantry, the flower of the British army, many of them 1,000 strong and more, were sent to England. A hattalion of Indian infantry was sent to Mauritins, another to the Cameroons, and two battallons to the Persian Guif, while Indian troops also co-operated with the Japanese at the capture of Telingtau. Approximately 80,000 British officers and men and 210,000 Indian officers and men. all fully trained and equipped were despatched overseas. I would here remark that the largest Indian expedition ever previously sent overseas amounted to 18,000 men.

"A comparison between the ordinary establishment of the Army in India and of the units sent overseas in connexion with various expeditions shows in a striking manner the military offort made by India to assist the Empire. Of the British establishment in India, seven regiments of British cavalry out of nine were sent overseas: 44 British battalions of infantry out of 62, and 43 batteries of Royal artillery out of 56; while of the Indian establishment, 20 regiments of Indian cavalry out of 39 and 89 battalions of Indian infantry out of 138 were sent abroad. In return for these troops, India received many months after the outbreak of war and the despatch of Indian divisions overseas, 29 Territorial batteries and 34 Territorial battallons, but these were unfit for immediate employment on the frontier or in Mesopotamia until they had been entirely rearmed and equipped and their training completed. Many of them were sent later to Mesopotamia, whether as units or drafts for Regular regiments, and all did splendid service. It is, however, a fact that for the space of some weeks before the arrival of the Territorials the British garrison in India was reduced to about 15,000 men. The safety of India was thus imperilled in the interests of the Empire as a whole. In such a cause I was naturally prepared to take risks, and I took them confidently because I trusted Impire and their loyalty to the King Emperor.

Impire are very few survivors of those two splendid divisions of infantry. But India the people of India, and I am proud to say they has a land frontier, needing at all times a watchful eye, and at times such as these giving cause for special care. To guard that frontier three it was the steady policy of the Government of

able, not merely to send her divisions to France their stronghold by Lord Lake's army in 1805. and elsewhere, but also to supply to England within the first few weeks of the war 70,000,000 cavalry and 60 compenies of infantry. rounds of small-arm ammunition, 60,000 rifles are good and steady soldiers found in the hand more than 550 guns of the latest pattern districts of Punjab. The ruling Chief and type. In the first week of the war some Kashmir is of this caste, of which sent overseas since the war began.

The Fighting Races.

The fighting classes that contribute to the composition of the Indian Army are drawn mainthus furnish a great part of the strength of both still in the ranks. Infantry and Cavalry. The Sikhs, of whom an account has already been given, are distributed throughout the Punjab. Mahomedans of variance the ranks of the steps were taken manifested. the Cavalra is the steps were taken manifested. ous races contribute a still larger proportion to both arms. These are drawn both from the north and south of India, as well as from beyond the frontier, where the tribes contribute 56 companies to our infantry; while the Musalmans and Pathans of India itself furnish between them 63 squadrons of Cavairy and 250 companies of infantry. These are all excellent fighting men, hardy and warlike, who have furnish nished soldiers to all the great powers of India for many hundreds of years. Large numbers of Mahomedans were to be found in the ranks of the early part of the last century. As Cavalry the Mahomedans are perhaps unequalled by any other race in the East, being good horsemen and expert men-at-arms.

Next to these in point of numbers are the little Gurkhas of Nepal, of whom 161 companies serve in the ranks of the Infantry. These, with the exception of one company in the Guides, are formed in twenty complete battalions. As fighters in the hills, the Gurkhas are unsurpassed even by the Pathans of the North-West Frontier. Their proficiency as soldiers was first proved in the Nepal War of 1814, when they fought against us and has subsequently been displayed on many a field in the ranks of our army. The cheerful and steady discipline of the Gurkha has always rendered him a valuable soldier, while his proficiency in the use of arms, including the

time hamemorial has been the Rajput, who in-inabits not only Rajputana but the United Pro-vinces and Oudh. Of fine physique and martial bearing, these warriors of Hindustan formed the buckbone of the old Power laws and have backbone of the old Bengal Army, and have sustained the British flag in every campaign in the East. Their high caste and consequent

India to give readily to the home Government instincts and efficiency in war. This class now of everything it possessed, whether troops or furnishes 10 squadrons of Cavalry and 100 comwas then accepted as the requisite standard Brahmins and Mahrattas. The Jats are a fine of preparation of her military forces and equip- and warlike race, found in the Delhi and Rohtak ment. The Army was at war strength, the districts and adjacent territory. It was these magazines were full, and the equipment was people who held out so bravely at Bharatpur complete. Thanks to these facts, India was and recelled three attacks delivered against They now furnish us with 21 squadrons of are good and steady soldiers found in the hilly 530 officers of the Army, who could lil be spared, squadrons and 56 companies in the army. Brahwere handed over to the War Office, and nearly mins are not now largely enlisted; while the 3,000 additional combatant officers have been Mahrattas, famous as predatory herse in the Mahrattas, famous as predatory horse in the historic past, now compose 54 gompanies of infantry. They are chiefly recruited in the Decean and the Konkan. Normust we forget the Hill Rajputs of Garhwal, good and gallant soldiers, who supply two battalions; and ly from the north of India. Of these there are the low caste men of Madras so efficient as 35 squadrons and 214 companies of Sikhs, who Pioneers and Sappers. Some 0,000 Madrasis are

New Regiments.-In 1916 two important steps were taken. In response to a strong desire manifested, the Government accorded sanction to the raising of an Anglo-Indian Regiment. By Anglo-Indian it should be understood that a change in nomenclature was made in the Census of 1911. The term Anglo-Indian used to connote the Englishmen resident in India: by the census it was made to embrace what used to be called the Eurasian, or Domiciled community. terms which have now passed into desuctude. Recruiting proceeded all over the country and the men enlisted were sent to Quetta to be trained. In October, 1917, the Hon. Secretary, Federal Council Anglo-Indian Associations of India, the Mahratta armies which opposed us during stated that the Adjutant-General in India had made the following report :- "I am directed to say that the General Officer Commanding Force 'D' has reported favourably on the services rendered by Anglo-Indian Units employed in Mesopotamia, and has stated that he would be glad to have more of them, if available. In these circum-tances I am to request that you will use every endeavour to accelerate recruitment of Anglo-Indians with a view, if possible to the formation of new units. There no objection to members of the Indian Defence Force (it eligible) joining the Anglo-Indian Force, and all Recruiting Agents should be instructed to approach such members with a view to their enlistment."

In August, a Bengali double company was rais-Since the advent of the British to India not before, the Bengalis have not been recognized national Rukri, has made him terrible in war amongst the fighting races and recruiting has While such a wonderful marcher in the hills, the not been practised. This exclusion during the war properly protest, and at Dacen on August 7th, Lord Carmichael, Governor of Bengal, made the following announcement :-

"The Viceroy has been considering the posttion with the Commander-in-Chief and other members of his Government. They have determined to try as an experimental measure to mise a double company of infantry composed of Bengalis on precisely the same terms as are prejudices in no way interfere with their martial offered to the Indian Army generally. The

culistment will be for the period of war with option to the period of war with option to the period of war with option to the soldier of remaining if he chooses crutiment and a consideration of schemes for the period of schemes for production of option to the soldier of remaining if he chooses in the service after its conclusion. The double meeting the necessary or potential demands the necessary or potential demands for magnificant to thick the present. in the service after its conclusion. The double meeting the necessary or potential demands frontier for training and whom properly tening a greater may seem inclosured. company when formed will be tocated on the frontler for training and when properly trained may be sent on field service. That the Government of India should be willing to consider the now, while the war is going on shows that this now, while the war is going on, shows that they have not neglected the feelings of Bengal, that they should be willing to make an experiment is a proof that they do sympathise with us, that they do believe that Bengalis are loyal and are devoted. Surely it is the duty now of overy one who loves Bengal to see that the overy one was notes beings, to see that the experiment shall succeed, to show that emotional and impetuous as the Bengals undoubtedly are, they are generous enough to exercise selfare, they are generous enough to exercise sent-control, that they are ready to submit to disci-pline and will do their part when asked just as well as other people do their part without demanding any exceptional or better terms."

The Bengalis had already raised an Ambuance Corps, which did good service in Mesopota. inia. The announcement was received with Reneral satisfaction, and the required number of men was readily forthcoming.

Onthreak of war recruiting in India has expandod to very great dimensions and now deals with the manifold classes of men required for Adjutant-General has now not only to keep and outstand outside of the control of the control has now not only to keep the control of the contro existing establishments up to strength, but to form new units of compatibility of form new units of form new unit to form new units of combatants, to entitle nications of modern armies, the adequate fulfilment of these tasks has become too heavy filment of these tasks has become too heavy for mere departmental management. Consequently departmental management. Consequently departmental management. Consequently departmental management. Consequently department of the man selectively to meet the special department of the solder and the conditions.—Many force department to the flow solder and the conditions of the pay members are this flower of the professor. The other decade 100 details of the professor of the Punjab, Their Highnesses the lemenant too began with an increase of the professor of the Maha. It is adapted to the adoption in India of the professor of the Maha. It is adapted to the adoption in India of the professor of the Maha. It is adapted to the support of the pay of Prilish professor the Maha. It is adapted to the adoption in India of the professor of the Maha. It is adapted to the April 1002. This

- ed can be best distributed among the feveral
- (3) Co-ordination of recruitment to as to

- (5) To ensure, in short, that the prosecution of the war is not hampered by any avoldable deficiency in man power.

To enable the board to watch the progress of recruiting and to ensure the co-operation of the military and civil authorities throughout the country and civil authorities throughout the country local count the country local Governments have been asked to form provincial recruiting boards containing a large civilian and non-official circumstances and some civilian and non-official circumstances. taining a large civinan and non-cinetal circument in the shape of landowners, business men and leaders of public opinion. These provincial boards help to keep the central board in touch with every aspect of the question.

Commissions for Indians.—In August, 1917, it was announced that His Majesty's move the Government had decided to remove the bar which had precluded the admission of Indians to commissioned rankin Ills Majesty's Army. A few days later the following Indian gentlemen, in recognition of their warserviers, were granted commissions and posted to the here general commissions and posted to the finding Army units shown:—Captain Zonvar Singh, M.C., A.D.C., 1st Duke of York's Own Lancers, Captain Kunwar Amar Singh, 2nd Kassim Shah, 3rd Skinners Horse, Captain Aga Kassim Shah, 3rd Skinners Horse, Captain Aga Mans; Captain Malik Muntaz Khan, 1st Brah-Cavairy; Cantain Kunwar Pirthi Singh, Sth Cavalry; Captain Bala Saheb Daphie, 2nd Queen, Victoria's Own Rajput Light Kunwar Pirthi Singh,

Governor of the Punjab, Their Highnesses the Malamajah Scindia of Gwallor and the Malamajah Scindia of Gwallor and the Malamajah Scindia of Gwallor and the Malamajah of 2d. a day from the 1st April 1902. This States), the Hon. Sir Claude Hill, the Mon. Sir Claude Hill, the Hon. Sir 1904 a further increase of from 4d. to 7d. a day.

William Vincent, Lieutenant-General H. was given in the form of service pay. The William Vincent, Lieutenant-General H. was given in the form of service pay. The Hon. Major-General A. H. blingley, Secretary in accordance with the decision of the Lord Tustice, acting as arbitrator between to the Army Department.

The Boards' functions may be summarized and follows:

(I) The consideration of our requirements in lattent and non-combutant and how there reduces the met.

(I) The consideration of our requirements in lattent and non-combutant and how there reduces the met.

(I) The consideration of our requirements in lattent and non-combutant and non-combutant and non-combutant and how there reduces the met.

(I) The consideration of our requirements in lattent and non-combutant and non-combutant and non-combutant and how there reduces the met. tention announced in the Procumation of the King Emperor on the afflicth analysts of the thunder of Government to the Crown, a general increase of pay for all ranks was granted (3) Co-ordination of recruitment so as to crease was Re. 3 a month for non-commissional conflict as little as possible with executial industrial and economical requirements.

(3) Co-ordination of recruitment so as to crease was Re. 3 a month for non-commissional of the sillar as a month of the sillar cavalry and sillar cavalry and may be noticed were the raising of the lifegeneral increase of Jary for an ranks was granted to the Indian Army, and arrangements were nade for the free supply of fuel by Government at a cost of \$237,000 a year. The induction of a boot allowance, the grant of free grass to silladar cavalry when on the march or at manuvers and of free passages by rall (within certain limits) for men called home en urgent private affairs-all introduced in 1906; the revision and improvement of the Pinsion rules of the Native Army, and the abolition of the punishment of flogging in time of prace, except for offences for which that punishment is permissible in civil life, in 1907-03; and a revision of the rates of pay of captains and subalterns of the Indian Army, and of resimental salaries, involving a con-fiderable addition to the emoluments of the junior grades in 1000. Since 1910, considerable progress has been made with the improvement of the accommodation for the native troops. It had become obvious that this improvement was a matter of urgency in many cases, and with the persistent rise in prices and wages comfortable and durable buildings could no longer be constructed without a considerable increase of expenditure. In the new lines, a sound type of construction has been adopted. and the work has been entrusted to the Military Works Service instead of to regimental acency. Finally a bonus of half a month's ray, was granted to all non-commissioned officers, and men and reservists of both the British and Indian armies, and to the equivalent ranks of the Royal Indian Marine, at the Coronation Durbar in 1911, at a cost of about £166,000. On the occasion of the Coronation (Durbar of 1902, a money grant to be spent at the discretion of officers commanding was made to all British and native troops. Reserves.

after the outbreak of the war.

Reserve of Officers.-For some years there has been entertained what was called The Indian Army Reserve of Others-a small buly of trained effects who would be available to replace the casualties amongst the British officers arving with the Indian troops in time of war. This branch of the cervice was however erimously neglected; the conditions of service here tentimeties, the prospects of promotion here practically nit; and the military autho-tities best-red to rely on the expedient of ritles reviewed to rely on the expedient of mallituding the number of British officers serving nith ladian tecopy in order to meet ensualties, tally than to train up an effective reserve. Tally policy trained by the way was found wanting.

money granted on colletment and the intro- been taught to rely, and it was impossible to duction of a boot allowance, the grant of free make the great gaps good from the ordinary officer class, because of their lack of knowledge of the Indian languages and Indian conditions. An appeal for recruits for the Indian Army Reservo of Officers met with a very ready response. The first enrolments reached the substantial figure of fourteen hundred, a very large proportion of whom were drawn from the Volunteer Officers, or from the ranks of special corps like the Light Horse, who are ordinarily recruited from the officer class. The officers selected were put through a mpld course with British and Indian regiments; made to rass a language test, and when efficient were sent to serve with the Indian regiments at the front. They have done excellent service and have suffered many casualties; indeed, without this reinforcement of officers specially acquainted with Indian conditions, the efficiency of the Indian Regiments could not have been maintained. It is understood that the numbers are now being raised to between two and three thousand.

The Imperial Service Troops.

The voluntary movement towards co-operation in the task of Imperial defence that led to the formation of the force of Imperial Service Troops was initiated in 1887 by an offer made by the Nizam of Hyderabad, whose example was at once followed by a number of the leading Native Princes. The troops, which are under regular inspection by British Officers, though available for Imperial service when placed at the disposal of the British Government by their Rulers, belong to the States and are re-crulted from their subjects. Their armament The Indian Army Reserve dates from 1886, training, discipline, and efficiency they have nder existing arrangements, it consists of reached a high standard of excellence. They The Indian Army Reserve units from 1500s, training, discipune, and emerency they make Under existing arrangements, it consists of reached a high standard of excellence. They man with not less than three years' colour have done good service on the North-West service. Men parsing into the Reserve still Prontier and also in China and Somaliland, belong to their respective regiments, and come of the decade (1901-02 to up for two months' training once in two years. 1011-12) twenty-three States between them In 1904 when the strength of the Reserve was supplied a total of over 16,000 men. Some about 24,500 men, it was decided to raise it additional offers of contingents have since required to 60,000 men. Training the reserve have scentist and the total strength is namely. atom 24,000 men, it was decided to raise it additional offers of contingents have since gradually to 50,000 men, reducing the reserve been accepted, and the total strength is approximate from an Indian cavalry reserve by extending States contributed. The total included some the system to Silindar cavalry regiments, 10,000 infantry, and 7,500 cavalry, while therefore. There is a body of reserve officers these numbers were largely increased soon about 700. Gwallor contributes nearly 4,000 men. about 700. Gwallor contributes nearly 4,000 men, and Kashmir over 3,500; Patinia, Hyderabad and Alwar contribute over 1,000 each. On the outbreak of the war practically the whole body of Imperial Service Troops were immediately placed at the unfettered service of the King-Emperor. Many of these offers were gratefully accepted and large bodies of Imperial Service Troops proceeded to one or other of the theatres of the war.

The Imperial Cadet Corps.

The Imperial Cadet Corps was founded in 1901, with the object of providing military training for the scions of ruling and noble Fither than to train up an effective reserve, familie. The Corps consists of about 20 young Rularchier than to war was found wanting, men of noble birth who have been educated The callatier amongs the British officers with at the Chiefs Colleges. The course of instructhe letter region its were very large ladeed; then lets between two and three years, and the deprierd et für entreie en which they had refrace, Its leadquarters are at Delina Dun.

THE INDIAN DEFENCE FORCE.

traffic I that the Volunteer exclore in Italia fron-Hability to-per mis not ordinarily resident Was mount dieters, and the war people that his British India; members of His Malesty's releasing all the more white. Claraters of have and military force other than volunteers becomes and other had a passed restricted and a finder the Indian Volunteers Act, he taken released form of completely service 1860; persons in Body Orders or regular minister absorbed in Indian Englar minister at the first of law Entire denomination; persons in the form of law Entire denomination; persons in the first of law Entire denomination; persons in the law Entire denomination and law Entire denomination; persons in the law Entire denomination; persons in the law Entire denomination; persons in the law Entire denomination and law Entire denomin "there exist etcl. either for the impostreent who have at any time electionering of the of the Villagions of his the or attorist a new lover bein prisoners of var, captured or intermed lists, was very if higher ray indied could it be, by the enemy or have been released or exchanged, name to the glocker of any if fille prenounce right by the Government of India acto the Failure to comply with the Ordinance is that it which the V interes were supposed graduable with a fine which may extend to to perform in war and prace. It is true that Be, 500, and failure to notify change of address tropy the contrak of the war the Volunteers v to fredy good, especially in Bombay, for a vizite of delice normally perform d by garrisin troops, such as emborkation work and later on for executing prisoners to Alimednagar Volunteers lained the Army and the Indian Busers, of Officers in large numbers, a Volunteer Entirely want to Masopotamia and a Volunteer Maxing gun section went to East Africa; but play of say public authority the chief executive to the force as a whole no use was made and no compulsity use could be made so longue Section person in the employ of any milway the head 16 of the Indian. Volumbers, Act, which preson to the railway administration; in any other case ecribed local limits of service, n mained in force.

By the beginning of 1916, however, the gradual withdrawal from India of European tmops made it necessary to endeasour to form some self-me by which the Europeans remaining in the country could be employed for its defence. How many Europeans in India were fit to bar arms was not known, nor did the saost mount those figure afford any clue as their places were not being filled from England, introduced (for the full text of the Act, see at The first step therefore towards the desired; end was the rigistration of Europeans, and on February 2nd, the Registration Ordinance, 1917, was published. By that Ordinance overy male European British subject (as defined in the Criminal Procedure Code, 1894) between the nges of 16 and 50 was compelled to register and the nature of its existence, so this new his name; place of residence; date of hirth; force will come under the provisions of the his name; there of residence; date of hirth; force will come under the provisions of the whether single, married or widower; number indian Army Act. It is intended to be an of dependents, if any; profession or occupation, If any, name of business, address of employer, it any, and nature of employer's business; whether the work on which he was employed,

European British Subject.—According to cannot play at soldiers in these times, nor I hope shall we play at soldiers at any future dure, European British subject means:—(1) Any subject of His Majesty, born naturalized.

In introducing the Pull St. subject of His Majesty, born, naturalised or domiciled in the United Kingdom of Great Britain and Ireland or in any of the European, American or Australian Colonies or possessions of His Majesty or in the Colony of New Zealand or in the Colony of the Cape of Good Hope or Natal, (2) any child or grandchild of any such person by logitimate descent. That definition, as will be seen later, was smeaded before the passing of the Indian Defence Force Act.

Exception .- Persons in the following categories were non-liable to register but might Indian Defence Force will be a second line force

For some there before the wer borns it was be called upon to support their claims to each

within seven day six punishalds with fine which may extend to Ba, 200.

Registration authorities -it was provided by a schedule to the Ordinance that these authorities should be in the case of any person in Government employ the head of the defortment; in the case of any person in the enofficer of such authority; in the case of any where no special authority is pre-cribed the District Magistrate of the district where the person for the time being is neithern, or, in the case of a per-on resident in a presidency town. the Commissioner of Police.

The Bill introduced.—The process of registration was carried out with little difficulty and but few cases of prosecution for failure to legister were reported in the Press. Shortly the end of this article) and on that occasion II. E. the Viceroy explained that volunteering was a broken reed and that there must be equality of eactifier. "It is useless, he said, to spend money on a military force which is bound to be ineffective under the condition effective military organisation as the British element under this Act is to be dealt with on the same lines as those of the British regulars, so the Indian element will come under the same whether the work on which he was composed, it any, was work for or under any Government military conditions which apply to the Indian department; whether he had undergone military or naval training of any description, if so within India. I do not think what and for what period.

> der-in-chief stated that the service companies would for all intents and purposes be regular units for the time being, and would be clothed, equipped, rationed, and paid as regulars. They would relieve regular units on garrison duty and would be stationed anywhere in India where they might be required. He hoped that their work would be reckoned officially as war service.

In conclusion he said that "though the .

t will be in no sense a second rate force. For, to mean to make it a model of lis kind. It sombers must realize that we are dealing now lith serious soldiering and that personal convolence and other considerations must yield o military efficiency, and to the creation of spirit of discipling upon which that efficiency o largely depends. The old volunteer force has become an anachronism, it has been replaced at Home by the Territorial Force, and rill now be replaced in India by a Defence love designed to suit local requirements whose levelopment and progress will be watched with the keenest interest."

European British Subjects.—The main alteration in the Bill suggested by the Select Committee to which it was referred related to he definition of the term "European British Subjects." It was proposed originally to define that phrase as in the code of Criminal Procedure, but the Committee made it more comprehensive. It retained the referential definition contained n the Bill and brought within the scope of the definition two other classes of persons, namely, persons who within the prescribed period have asserted the status of a European British Subject by lodging form (a) with the Registration nuthority under the Registration Ordinance, 1017, and persons who are members of a Volunteer corps constituted under the Indian Volunteers Act, 1869. "In the first case, said the Committee in their report, the person concerned has himself put forward a claim to the status which should not lightly be refused, and in the second case the justification for such a course is that a person who has undergone some form of military training at the exp-nse of the state may well be required to aid that state in the time of need. By this amendment we consider that a considerable extension will be given to the ambit of the definition, and though the change might not commend itself if we were undertaking normal legislation in normal times, we think that at the present juncture it is justifiable." The effect of this change was to include in the Force a number of Goanese and other aliens who had previously been members of the Volunteer Force many of whom were subsequently exempted by the Tribunals from liability to General Service.

Tribunals.—Hasty Exemption drafting of the Bill led to not a little confusion and particularly was this noticeable in the proceedings of the Exemption Tribunals. The grounds on which they could grant exemption were sufficiently clear but what was or was not in the "national interest" was a frequent source of discussion. Nor were the duties of the Selection Committees (which select the men required at a given time for General Service) at first clearly laid down, and it was not until the Tribunals realised that a Selection Committee had power to refuse to select as well as power to select a given man that anything like uniformity of procedure became noticeable among the various Tribunals. But by that time some of the more lenient Tribunals, that in Calcutta more particularly, had either totally or partially exempted numbers of men who would have had little chance of obtaining any form of exemption from those Tribunals which more fully realised the gravity of the cir- upon an efficient basis."

cumstances which had made the passing of the Indian Defence Porce Act necessary.

The response of indians to the invitation to enrol themselves in the Defence Force was from the first poor. Objection was taken to the terms offered and to the distinction made between Europeans who were compilled to serve and Indiana who were only asked to gratify their frequently expressed longing to join the Volunteer force. In May the Government of Indialesued a resolution on the subject in which they noted with concern the disappoint. ing response made to their appeal and recapitulated the circumstances in which the scheme was initiated. It is, said the Resolution, "a matter of disappointment to the Government of India to find that during the first two months after the passing of the Act only 300 men have been enrolled in place of the 6,000 for which preparations were made. It is felt that all who take an interest in the Defence Force and believe those sentiments of patriotism which have brought it into bring, and who have the good name of India at heart will be dishearconed to learn that out of the six months for which a cruiting is open so much time should have clapsed without any adequate response being made." At the end of August, instead of 6,000 bringenrolled as a preliminary step in six buttalions, only 3,803 had applied to be curolled. In September, when the Hon, Mr. Sarma moved in Council that the period of applications for enrolment should be extended, the Commander in-Chief said the final figures were 5,604 which, allowing for rejections, were as many recrults as could well be drilled. After some months the question of increasing the force might be reconsidered.

Conditions of Service.—The conditions under which Indians were invited to serve were those applying to His Majesty's Indian Forces in the Regular Army, and, as periodical training was not demanded of those enrolled, were far less onerous than the terms imposed on Euro-peans in India. The Resolution already quoted said on this point:—"The leaders of Indian opinion are doubtless aware that the pay of the Territorial force in England was the same as that of the regular army, and that men of position and means in the United Kingdom and even in distant parts of the Empire did not think it derogatory to join the ranks both of the Territorials and of the New Army and to serve as private soldiers shoulder to shoulder with those of other classes, and many of them have given their lives in such service in France and elsewhere during the present war. asked no questions as to pay or other conditions, they put forward no pretensions or demands; their one ambition was to serve their country in her hour of need and their memories will ever be honoured by the nations in whose defence they fought. The Governor-Generalin-Council was assured that asimilar ambition prevailed in India, and that it was only necessary to throw open the ranks of the Defence Force to Indians to secure a hearty response. At a time when military organisations are strained to the uttermost it was not possible to provide for the training of an indefinite number of small units all over the country o nsuch a scale as to place a newly constituted force of this character

Act No. III of 1917.

[28th February 1917.]

An Act to constitute an Indian Defence Force and for other purposes.

Whereas it is necessary to constitute an Indian Defence Force, and compulsorily to entol for service in that Force certain European British subjects; and

Whereas in the case of others, it is deemed sufficient for the present to take power to enrol. for such service only such persons as may offer themselves for enrolment; It is hereby enacted

1. (1) This Act may be called the Indian Short title, extent Defence Force Act, 1917.

and duration.

(2) It extends to the whole of British India. including Brisish Baluchistan and the Southal Parganas, and applies also to European British subjects within the territories of any Native Prince or Chief in Indla,

(3) It shall remain in force during the continuance of the present war, and for a period

of six months thereafter.

2. In this act, unless there is anything repugnant in the subject Definitions. or context-

- "European British subject," means a European British subject as defined in the Code of Criminal Procedure, 1898, and shall, for the purposes of this Act, be deemed to include every person who, before the third day of March, 1917, has filled up, signed and lodged Form A with the Registration Authority under the Registration Ordinance, 1917, and also every person who at the commencement of this Act is a member of a corps of volunteers constituted under the Indian Volunteers Act, 1869;
- "Prescribed" means prescribed by rules made under this Act.
- 3. Every male European British subject who, on the first day February 1917, was ordinarily Obligation general military resident in India or thereservice. after becomes so resident. and who for the time being

has attained the age of eighteen years and has not attained the age of forty-one years and who is not within the exceptions set out in the Schedule to this Act, shall be deemed to be enrolled for general military service within the

meaning of this Act:
Provided that, if any person referred to in this section whilst engaged in actual military employment of which fact the Commander-in-Chief in India shall be the sole judge, attains the age of forty-one years, such person shall continue to serve for such additional period not exceeding one year as the prescribed military bet out in the Schedule or as to the age of any authority may direct.

4. Every male European British subject who on the first day of Obligation of local military service. dent, and who for the time

enrolled for local military service within the meaning of this Act.

5. Every male European British subject who, on the first day of February, 1917, was ordinarily resident in India, or Obligation of local military thereafter becomes so resident, and for the time being service and llability to millhas attained the age of sixteen years, but has not tary training.

attained the age of eighteen years, shall 12 deemed to be enrolled for local military service but shall only be liable to such military training as may be provided for by regulations made under this Act, and shall not be liable to any other form of military service.

Every person deemed to be enrolled for inllitary service, whether lo-cal or general, shall, as from Obligation on

persons enrolled the commencement of this for military Act, be deemed to be enrolled service.

in the Indian Defence Force, and may be appointed to such corps or unit thereof as he may thereafter

he assigned to, and shall, if he is a person deemed to be enrolled for general military service, be liable to serve in any part of India.

7. Every person deemed to be enrolled

for local military service shall be subject to any Obligation on rules and regulations relatpersons enrolled for local military jug to that service which may service. be mude underthis Act :-

Provided that no such rule or regulation shall require any such person to serve outside the limits of the prescribed local area,

- 8. (1) Every person deemed to be enrolled for general military service Obligation on shall be subject to any rules and regulations relating to that service which may be made under this Act. persons enrolled ior general military service.
- (2) Every such person, who called out in the prescribed manner for general military service shall be subject to the provisions of the Army Act and any orders or regulations made thereunder, whereupon the said Act, orders and regulations shall apply to him as if the same were enacted in this Act, and as if such person held the same rank in the Army as he holds for the time being in the Indian Defence Force.
 - 0. If any question arises, with reference to this Act, whether any Determination person is a European British Determination subject within the meaning of disputes as to of this Act or is "ordinarily resident" in British India, residences and age. or is within the exceptions

person, the prescribed authority, or a person authorized in this behalf in writing by that authority, shall apply to the District Magis-trate or to an officer specially empowered February, 1917, was ordi- trate or to an officer specially empowered narily resident in India, or in this behalf by the Local Government, in the thereafter becomes so resi- district or local area in which the person to whom the dispute relates is for the time being, and such Magistrate or other officer after being has attained the age of forty-one years being, and such Magistrate or other officer after but has not attained the age of fifty years, and the sating such person or giving him a reasonable who is not within the exceptions set out in the opportunity of being head, shall summarily Schedule to this Act, shall be deemed to be determine the question, and the decision of hearing such person or giving him a reasonable such Magistrate or other officer shall be Buall for all the purposes of this Act:

Provided that if any question referred to in this section has been decided in accordance with the procedure provided in the Registration Ordinance, 1917, such decision shall be deemed to be a decision under this section of this Act.

10. If any person who is deemed to be enrolled for military service, inilitary service. Afrest of persons whether local or general, under obligation disobeys any notice or order

for military service.

on the application of the prescribed authority, neror of a person authorized in this behalfin writing by that authority, cause such person to be constituted under Sub-Section (1) shall be arrested and brought before him, and if the limble to serve in any part of gadia, shall be Magistrate is satisfied that he is a person to subject to all rules and regulations that may be whom Sections 3, 4 or 5 of this Act applies, and made under this Act relating to his corps of who has been called out for such service, the Magistrate without projudice to any penalty which such person may have incurred shall make over such person to the custody of the military authorities.

11. (1) Application may be made to the prescribed authority by, or Certificate of (subject to rules made under exemption. this Act) in respect of, any

person referred to in Sections 3, 4 or 5, for the issue to him of a certificate of exemption under the provisions of this Act on any of the following grounds, namely :-

(a) that it is expedient in the national interest that he should instead of being employed in military service be engaged in other work; or-

(b) if he is being educated or trained for any work that it is expedient in the national inten-t that he should continue to be so educated or; trained; or

(c) Ill-health or infirmity; and the prescribed authority, if it considers the grant such a certificate.

(2) The Governor-General in Council may exempted by whom it may be made; also, by order in writing din et the issue to such persons or class of persons, as he thinks fit, of certificates of exemption in he is satisfied that such a course is desirable in the national interest.

(3) Any certificate of examption may be absolute, conditional, or temporary, and may be renewed, varied or withdrawn at any time by the authority which granted it, and may provide that a person liable to general military service shall perform local military service .

Provided that every conditional or temporary certificate shall state the conditions under which or the period for which it is granted.

(4) If, for the purpose of obtaining exemption; for himself or any other person, or for the puranthority under this section, he shall be punishable with imprisonment for a term which may extend to six months, or with fine or with both, to be prescribed.

12. (I) The Governor-General in Cornell may, by notification in the

Eurolment of persons other than European British subjects in the Indian

notification, corps or units for the enrolment in the Indian Defence Frace Defence Porce persons other than European for general British subjects, who earlisty

"Gizette of India," con-

stitute, in any local an a

which he may specify in the

the peacethed conditions and. disobeys any notice or order within six months from the communication of calling him out for such this Act, offer themselves for enrolment for service, any District or Chief general military service, and such persons may Presidenty Magistrate may, be carolled accordingly in the prescribed man-

> (2) Every person enrolled in a corps or unit constituted under Sub-Section (1) Hall be unit, and shall not quit such corps or unit, except in the prescribed manner.

(3) Every such person shall, when called out in the prescribed manner for general military service, les subject to the Indian Army Act. 1911, and the rules made the reunder, whereupen the said Act and rules shall apply to him as If he held the same rank in the Indian Army as he holds for the time being in the Indian Defence Force.

 (1) The Governor-General in Council may make rules to carry out the purposes of this Power to make let

(2) In particular and without prejudice to the generality of the foregoing rober, such rules may --

(a) prescribe authorities for the purposes of Sections 9 and 10 :

(b) constitute authorities and prescribe the procedure of such authorities for the purpose of considering applications for exemption from military service:

(c) pascribe the time within which, and the grounds of the application established, shall form in which, such application may be made, and the persons other than the person to be

(d) prescribe the conditions subject to which persons other than European British subjects should be permitted to offer themselves for

general military service;

(e) prescribe the unlitary or other obligations to which persons or any class of persons chrolled or deemed to be enrolled under this Act shall respectively be liable; constitute or specify Courts for the trial and punishment of breathes of such obligations; prescribe the procedure to be rollowed by such Courts; and provide for the enforcement or carrying out of the orders or sentences of such Courts;

(f) provide for the medical examination of personaliable to general military service;

(9) provide for the calling out and all purposes ancillary thereto of persons or any class of pose of obtaining the renewal, variation, or persons liable to general military service, and withdrawal of a certificate, any person makes a constitute authorities for the purpose of assistant false statement or false representation, to any ing in the selection of persons to be so called out; and
(h) provide for any matter in this Act directed

that any contravention thereof or of any order this Act or to their dependants. ornotice issued under the authority of any such rules shall be punishable with imprisonment for a term which may extend to six months, or with fine or with both,

(4) All rules made under this Act shall be Published in the "Gazette of India", and on such publicationshall have effect as if enacted

iu this Act.

14. (1) The Commander-in-Chief in India may, subject to the control of the Governor-General Summary and in Council, specify the summinor punishmary and minor punishments meuts. for breach of any rule made under this Act to which persons enrolled or deemed to be enrolled under this Act shall be liable, without the interventions of a Court, and the officer or Interventionsof a Court, and officers by whom and the extent to which such summary and minor punishments may be awarded.

(2) No punishment exceeding in severity imprisonment in military custody for a period of seven days shall be imposed as a summary punishment, and no punishment involving any kind of imprimsonment shall be imposed

as a minor punishment,

15. (1) The Commander-in-Chief in India

Power to make regulations.

zation, personnel, duties, and military training of any personshable to military service or training under this Act.

(2) In particular and without prejudice to the generality of the foregoing power, such regulations may-

(a) specify the units, whether of regular troops or any other military force with which any person or class of persons curolled or deemed to be enrolled under this Act shall serve or undergo military training, or constitute special military units for that purpose;

(b) specify the courses of training Instruction to be followed by any person or class of persons liable to military service or training

under this Act : and

amy) to be paid to any person or class of persons been released or exchanged.

(3) Rules made under this section may provide jundergoing military service or training under

(3) Regulations made under this section may provide that any contravention thereof, or of any order or notice issued under the authority of any such regulation, shall be punishable with fine which may extend to five hundred

16. Nothing in this Act shall apply to any person confined in a prise Act not to apply

to persons conor lunatic asylum.

fined in a prison or lunatic asyluin.

17. The The Governor-General in Council Power to dismay disband any or unit constituted under band corps or unit.

this Act. 18. The 18. The provisions of Provisions of Ordinance the Registration

Ordinance, 1017, shall be in force during the continu Registration ance of this Act, and shall have effect as if they had Ordinance, 1917, continued in force.

been enacted in this Act: Provided that the following amendments

shall be made therein, namely :-

(1) In Section 3, Sub-Section (1), of the said Ordinance, for the words "had not attained the age of fifty years on the first day of February, ""7," the words "who for the time being has

attained the age of fifty years," shall be

stituted (2) In Schedule II of the said Ordinance in entry (1) after the word "forces" the words or of the Royal Indian Marine Service" shall be inserted, and in entry (2) for the word "British," the word "religious" shall be substituted.

THE SCHEDULE. (SEE SECTIONS 3 AND 4.]

Exceptions.

(1) Members of His Majesty's naval and military forces of the Royal Indian Marine Service other than Volunteers enrolled under the Indian Volunteers' Act, 1869.
(2) Persons in Holy Orders or regular Minis-

ters of any religious denomination.

under this Act; and
(c) provide for and regulate the remuneration, beginning of the war been prisoners of war, allowances, gratuities or compensation (if captured or interned by the enemy, or have

MILITARY FLYING SCHOOL.

The Government of India sanctioned the establishment of an India Central Flying School, at Sitapur, with effect from the 1st October, 1913; but the work of the school has been suspended during the war. The object of this school is to gain experience in aviation under Indian con-ditions with a view to its ultimate expansion as a training establishment. The Commandant has entire control of the school under the direct orders of Army Headquarters to the Ordnance Branch, of which an Assistant Director of teronauties was appointed in July, 1910, to deal with and advise on all matters connected with eronauties. The school consists of a command.

medical and subordinate personnel. The British and Indian subordinate staff consists of civillans only engaged on contract for specified periods.

Conditions of appointment.-The qualifying conditions of appointment for the commandant, and flying officers, are as follows:—
(1) To hold a Royal Aero Club's pilot certi-

ficate; (2) to be recommended by his Commanding officer; (3) medical fitness (as stated below); (4) not less than two years' service (British service), three years' service (Indian Army). In addition Indian Army officers must have qualified for "final retention"; (5) not above the rank of Captain; (6) a natural bent ant and three dying officers with the necessary | for the mechanical; (7) and to be unmarried.

Officers are appointed to the staff of the school for a period of four years from the date of joining, the appointment being probationary for the first elx months, they will be reconded in their regiments. An officer who is found at any time to be unfitted for the duties of the appointment will be required to rejoin his Regiment. If injured on flying duty the Commandant and flying officers will be eligible for gratuities and pensions under the conditions Aril at the rates laid down in Army Regulations, midia, Volume 1, Paragraph 748 et seg. For officers who have been wounded in action in the event of death within seven years as the result of injuries so received pensions, etc., may be awarded under the conditions applicable to the ease of officers killed in action or dying of wounds received in action.

Equipment.-The Maharaja of Rewall has generously presented an aeroplane to the Central Flying School. This is of Royal Aircraft cooled motor, giving a machine speed of 72 intes, and 1 storekeeper.

miles per hour. Other machines consist of two 89 h. p. Gnome and two Maurice Farman bi-planes (70 h. p. Rensult). The school progress a portable hangar which will remain cricted on the needlone until permanent sheds are ready for occupation. The portable hangar will then become available for housing machines. The acrodrome at Sltapur is in area roughly of 400 neres. The first flights were made on february 24, 1914, when a Remah neroplane was need and each officer few in turn for a chort time.

Stall of the school.—The stall of the Indian Central Flying School normally consists of:-1 Commandant at Rs. 1,200 per menerm and I flying officers at Its. 600 each per

British Subordinates: 1 engineer, 1 gailmaker, 2 machinists, 2 riggers, and 1 repair shop mechanic.

Indian Subordinater: I carpenter, I sailfactory design and has a 70 h. p. Renault air | maker, 6 fitters, 2 riggers, 2 repair shop mecha-

The established strength of the European and Indian armics in India for 1915-16 (exclusive of Indian artificers and followers) was : European army, 2,291 officers and 72,475 warrant and non-commissioned officers and privates; Indian army, 3,107 European officers and non-commissioned officers and 159,858 native commissioned and non-commissioned officers and privates, or a total establi-hment of 237,821.

During 1015-16 the army of India was engaged in operations of war in France and 15 Igiam, West Africa, East Africa, Egypt, Somaliland, Adun, Musopotamia, Persia, and on the North-West Proptier of India.

The net expenditure on the army in 1015-16 was £17,676,836 for effective charges and £3,076,421 for non-effective charges, or £20,950,257 in all, as against £19,240,368 in 1914-15. In addition, £772,332 (net) was spent on military works and £13,514 on special defences.

The expenditure covered the full ordinary maintenance cost of the troops, δe_{ij} employed with the over-eas Indian Expeditionary Porces, as, in accordance with parliamentary resolutions, Indian revenues continue to be ar ordinary pay and other charges of these troops.

Health of the British and Indian Armirs.—The following table shows the siekness and mortally of the British and Indian troops (excluding officers) in India. During 1915 the death-rate of the British troops in India showed a further rise over the rate for 1914, and over the rate for 1913, which was the lowest on record. There was a further rise in the admission rate. For the Indian troops both death-rate and admission rate show on increase. These increases are no doubt in large part due to the treatment in India of troops execuated sick from Expeditionary Forces.

			Ratio p	er mille	of strengt	h,		
	t	British	Troops.			Indian 7	roops.	
	Average 1908-12.	1913.	1011.	1915.	Average 1908-12.	1913.	1914.	1915.
Admissions into hospital.	638 4	58015	614.1	823'1	578'3	531.7	560.2	741.4
Constantly sick	60.3	29.7	31.8	39.1	20.0	21.4	20.0	23.9
Deaths	6.1	3.3	4.3	2.02	5-4	4.0	4.5	8.22

MARINE.

The not expenditure on marine services amounted to 744,600 in 1916-17 as against 745,513 in 1915-16. In this amount are included the cost of the Royal Indian Marine and the annual contifbution of about £100,000 towards the expenses of His Majesty's ships employed in the Indian seas.

On the 31st March 1916 the Royal Indian Marine consisted of three troopships, and rix other sea-going vessels, three inland vessels, three dats, and a number of small steamers, faunches, &c. There was an establishment of about 2,130 officers and men.

Expenditure on the Military Services,

	Accounts.	Accounts,	1916-	17.	1917-18.
	1014-15.	1915-16.	Indget.	Revised.	finiget.
Expenditure,	ns.	Rs.	Ra.	Ra.	Re.
נומי					
Effective Services-					
Administration	61,61,083	50,70,067	52,04,430	54,07,000	60,70,810
Military Accounts	23,28,010	25,20,017	25,29,300	26,00,000	20,00,410
Regimental Pay, etc.	10,89,36,245	7,00,57,421	7,68,01,520	7,72,20,000	7,70,22,420
Supply and Transport	3,12,17,805	2,47,25,419	2,70,10,580		3,20,03,000
Veterinary	3,75,781	1,74,025	1,74,860	1,72,000	1,73,610
Clothing	20,59,517	24,53,604	17,32,620	41,42,000	26,14,360
Remounts	32,12,080	15,00,756	40,60,270	41,15,000	45,77,480
Modleal Scrylers	53,53,407	28,06,736	27,60,180	29,46,000	32,64,970
Medical Stores	3,34,215	4,92,279	5,54,020	0,70,000	0,82,000
Ordnance .:	1,01,46,288	80,35,316	1,12,83,390	1,26,48,000	1,37,86,510
Recleafastical	408,819	3,75,205	8,85,130	3,68,000	3,78,190
Education	10,04,196	6,66,326	7,08,660	5,58,000	6,01,000
Compensation for Food, etc.	ă2,50,055	35,84,000	32,34,000	34,01,000	12,37,000
Miscellaneous Services	3,48,63,084	10,11,32,874	11,13,51,810	11,40,40,000	12,00,40,000
Hutting	1,86,651	2,61,600	2,00,000	2,64,000	2,00,000
Canveyance by Road, River and Sea.	7,08,532	5,01,653	6,70,540	7,00,000	7,05,040
Conveyance by Rall	48,07,504	58,87,201	40,03,780	1,05,00,000	2,04,00,570
Cantonments	14,47,274	14,06,228	13,85,910	15,03,000	19,35,620
Unadjusted Expend- iture.	30,308	-12,49,349			••••
TOTAL Rs	22,17,00,777	24,42,81,408	25,46,54,000	27,07,12,000	28,40,07,000
Non-effective Services-Ita.	1,10,06,881	1,17,29,048	1,37,93,000	1,28,46,000	1,64,80,000
TOTAL INDIA Rs	23,27,07,058	25,60,10,540	26,84,47,000	28,35,58,000	30,14,77,000
Equivalent in sterling £	15,513,814	17,067,560	17,890,600	18,903,900	20,008,500

192 E.	хренините	on minn	ary Service	es.	
	Accounts	Accounts,	1916	17.	1917-18,
	1914-15.	1915-16.	Budget.	Revised.	Budget.
ENGLAND-	Ē	2	Σ 1	Ē	ř
Effective Services-		-	- 1	~	
Ard Payments to War Office for British		929.251 •	930,706	939,700	950,700
Furlough Allowances etc., of British	78,600	15,182	9,090	23,000	23,060
Forces. Consolidated Clothing Allowances of Bri		6,848	••••	••••	****
tish Soldlers. Furlough Allowances, Indian Service.	265,239	140,803	148,000	187,000	187,000
Indiau Troop Service Other Heads	85,206 142,741	556,904 51 , 074	282,000 08,500	279,600 55,000	252,300 54,500
Clothing Stores Ordnance and Miscell aneous Stores.	90,433 479,481	111,797 319,175	09,900 131,000	127,500 1,195,900	105,900 835,000
Medical Stores Supply and Transport Stores	1	104,511 88,444	123,700 37,500	189,500 83,000	141,800 95,000
Mechanical Tennenor		••••		110,000	158,800
Stores. Military Farms Stores Operations in Persian Gulf (Stores).	11,470 18,572	12,943	17,400	27,800	16,400
Aviation Stores Storestaken to India with Troops.	17,254	60,000 8,315	600	2.100	169,000
Total <u>e</u>	2,300,746	2,407,837	1,853,600	3.211,100	3,000,400
Non-effective Service-					
Payments to Wa Office for British Forces,		864,473	788,000	676,000	600,000
Pensions, Indian Ser	1,074,000	1,001,003	1.295,000	1,250,000	1,200,000
Other Heads	201.357	261,523	263,000	276,000	287,000
TOTAL £.	2,521,969	2,417,094	2,324,000	2,202,000	2,117,000
TOTAL ENGLAND £ .	4,822,715	4,825,831	4.182,600	5,413,100	5,117,400
TOTAL EXPENDITURE £ .	20,336,559	21,893,200	22.079.100	24,317,000	25,215,900
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.
India Rs	1.12,24,641	90.00,690	88,30,000	1,03,20,000	1,02,35,000
Equivalent in sterling England	347,882	£ 600,059 300,834	£ 588,700 314,700	£ 688,000 331,900	882,500 £
TOTAL RECEIPTS £ .	1.096,191	939,943	·	1,019,900	986,300
TOTAL NET EXPENDITURE	£ 19,240,369	20,053,257		23,297,100	24,229,600

 ESTABLISHED STRENGTH of BRITISH and INDIAN ARMIES in BRITISH INDIA (oxclusive of Indian Artificers and Followers).

	,	UXCHIS	Ç0 U	t thun	111 241	Lincers	and .	LOHON	1187.				
	Norther			ny.		Southe	nı Arn	ny.	1		To	tal.	
corps.	Conmits.		Officers &	Total.	Commit-	Warrant &	mission od Officers & Privates.	Total.	Commis-	Grra.	Warrant &	mission ed Officers & Privater	Total,
Dritish Army.	}	1		1	}	ì			1	Ī			
Royal Artillery	202	7.0	181	7,073	2	97	7,509	7,7	00	570	13	,100	15,760
Cavalry	102	1	5ព្.វ	3,750		31	,707	1,8	78	243		,301	5,634
Royal Engineers .	201	1	o	213	1	5	0	1	11	309		15	824
Infantry Invalid & Veteran Establishment.	781			28,018	G:		,126	24,70	-	456		,200	53,740
Indian Army	71			71	!		••	1	0	101			101
General List, Infantry General Officers unemployed	٠.			1		1				1			1
Total, British Army :.	1,514	39,4	18	40,002	1,17	<i>Б</i> 33	,438	31,61	3 2,6	180	72,	880	75,575
	Brit	ish.	Indlan.		British.		In	Iudian.		British	1.	Ind	lian.
corps.	Officers.	Warrant and NC. O.	Officers.	N0. O.	Officers.	Warrant	Officers.	NC. O.	Officers.	Warrant	NC. O.	Officers.	NO. O.
INDIAN ARMY. Artillery Body-Guards Cavairy Sappers & Minera Infantry	57, 4 372 34 1,095	120	1 18	3,440 280 5,440 1,971 5,688	11 4 211 53 930	219	8	,603 142 810 183 304	583 87 2,025		11	24.	048 422 250 154 002
Total, Indian	1,502	120	80	,819	1,200	212	70	,042	2,771		341	159,	801
Imperial Service			0	,077	••		11,	,092	••	<u> </u>		21,	080
Artillery		**		,863 ,814		**		565 450	••	::		1,6 1,6	928 803
Artillery Cavalry Sappers & Miners Infantry	::	::	19	086 ,380	::	::		401 830	::	•::	_ .	1,1 31,2	77
Volunteers— Efficients . Reservists .	818 19	17.700 1,621		::	731 12	20,122 1,533	•		1,549 81	37,0 3.0	21 54		,

[·] Latest figures obtainable.

THE EAST INDIES SQUADRON.

Since 1903 a equation of the Royal Navy, known as the Last ludler Equation, has been maintained in Indian waters. It has natu-rally varied in strength from time to time, and of late years in particular there have been several changes in its composition, the most recent being in the direction of strengthening it, owing to the disappearance of strength in an other squadrons of the Eastern Fleet. In East the squadron consisted of one second class and three smaller cruhers and tour shops or gunboats. In 1900, when the policy of withdrawal from Eastern waters was language. ated, it consisted of two second class and two third class cruisers, and remained at this strength until 1910; when one second class eruleer was withdrawn and two smaller versels substituted, and three eruliers were lent from the Mediterranean to assist in the suppression of the arms traffic in the Guil. By 1913 the position of the East Indies equation had conelderably Improved. The battleship Snittsure had taken the place of the accord chara craiser which had been flag-hip, and a modern second class cruser replaced the Persons. This is apparently part of the scheme for con-stituting a Pacific Fleet of three "unlin," one unit being the Anstralian Beet which is ultimately to consist of 8 battle emisers, 10 protected cruisers, 18 destroyers and 12 autmarines, but up to the present it has completed, or nearly so, one battle eruler, three others, six destroyers and three submarines. The other two "units" will be the squadrons stationed in China and Indian waters respectively.

The Last Indies Squadron at the beginning of the war consisted of the following ships (later details are not published in the Navy List):-

Flagship: Brillisure. battleship,

tons.

Communicate Chief, Bear-Admiral Wenders Daytmouth, cruier, 5,250 tony; Cartain Judge WAter.

Fox. emilier. 4,050 tons: Captain P. W. Caulfield.

Alert, eloop, 960 tone. Licut. A. Iohinstone. Deplegie, eloop, 1,070 tone. Communicati W. Nunn.

Odin, rloop, 1,070 tons : Commander C. R. Waron.

Contributions to the Navy.

A each and bull every, to the effect that the Native Chiefs of India nere going to present three super-breadnoughts and nine first class emisers to the Imperial Navy, was started in November 1012, and directed public attention to the question whether India was paying an adequate amount for the acreiors rendered by the Navy. Even the Naval Annual (1915 edition) took part in the artistion for an in-errared contribution by India. It says:— "Rumour has been persistent regarding the attitude of India towards the Navy. Some exaggrated statements were published during the year, but nothing definite has been done. This is the more surprising when it is remembered that, although the realtome commerce of India totals 115 millions sterling, the annual contribution to the Navy is only 1100,000 cut of a total revenue of F2 millions sterling. It is true that very heavy expenditure is lavolved in the military forces of India, but the com-merce, coast protection, and transporting of troops is dependent upon Britain's rea power. There is a prospect that India will voluntarily 11,500 follow the example of the self-governing Dominions."

The proportion of contributions from the overseas Dominions towards naval expenditure is shown in the following table issued with the last Navy Estimates that cave details:—

Received from	Nature of Service.	Total.
	(Malatenance of His Majesty's Ships in Indian Waters	100,000
India	Indian Troop Service (on account of work performed by the Admiralty) Repayment on account of services rendered by His Ma-	3,400
Australian Common-	Traffic in the Persian Guilt	64,000
wealth Dominion of	Contributions on account of liability for Retired Pay of Officers and Pensions of Men lent from the Royal Navy.	10,500
Australian Commonwe: Do.	lth Survey of the N. W. Coast of Australia Maintenance of an Australasian Squadron and of a branch	7,500
Dominion of New Zeals	nd Maintenance of an Australiasian Squadron and of the Im-	41,600
	perial Navy generally, also of a branch of the Hoyal Naval Reserve	100,000
Union of South Africa	General maintenance of the Navy	85,000
Newfoundland	Maintenance of a branch of the Royal Naval Reserve	3,000
	Total	415,800

India's Marine Expenditure.

That table, however, only shows a part of the expenditure made by India on the Marine. Einco 1800 India has paid a contribution of varying amounts to the Imperial Government in contideration of services performed by the Royal Navy. Under existing arrangements, which date from 1800-7, the subsidy of £100,000 a year, already referred to, is paid for the upkeep of certain ships of the Last India Equadron, which may not be employed boyond prescribed limits, except with the consent of the Government of India. The chief heads of marine expenditure, which amounts to nearly £400,000 annually, are shown below. Charges and receipts in respect of pilotage are no longer brought to account under this head:—

				
_	Accounts, 1914-15.	Accounts, 1915-16.	1016-17. Revised,	1917-18 Budget.
Expenditure.				
India Rs.	36,89,687	72,07,696	48,66,000	46,95,000
Equivalent in sterling £ England £	245,079 217,391	480,513 265,000	324,400 420,200	313,000 625,300
. Total £	463,370	745,513	744,600	838,500
RECEIPTS.				
India Re.	20,71,715	33,48,942	35,98,000	39,12,000
Equivalent in sterling £ England £	198,115	223,263	373,200	260,800
Total £	198,115	223,263	373,200	260,600
NET EXPENDITURE : £	265,255	522,250	371,400	577,700

ROYAL INDIAN MARINE.

The Royal Indian Marine (The Sea Service) the E. India Co. took over Bombay, Captain under the Government of India) traces its Young of the Marine was appointed Deputy origin so far back as 1612 when the East India Governor. From then until 1877 the Marine Company stationed at Surat found that it was necessary to provide themselves with armed vessels to protect their commerce and settlements from the Dutch or Portuguese and from the pirates which infested the Indian coasts. The first two ships, the Dragon and Hoseander (or Oslander), were despatched from Lugland in 1612 under a Captain Best, and since those days under alightly varying titles and of various strengths the Government in India have always maintained a sea service.

The periods and titles have been as follows:-Hon, E. I. Co.'s Marine 1612---1686 1696---1830 Bombay 1830---1863 [Indian Navy 1863-1877 Bombay Marine

was under the Government of Bombay, and although from that date all the Marine Listablishments were amalgamated into an Imperial Marine under the Government of Indla; Bombay has continued to be the headquarters and the official residence of the Director.

War Service of the Marine.

1612-1717. Continuous wars aminst Dutch, Portuguere and Pirates for supremacy of West Coast of India. 1744 War with France, capture of Chandernagore, and French ship In-dienne. In 1756 Capture of Castle of Gheria, 1774 Mahratta War, capture of Tannah. Latter part of the eighteenth century, war with French and Dutch, Capture of Pondicherry, Trincomalee, Jafaapatam, Colombo, etc. 1801 Egyptian campaign under Sir Raiphi Abererombie, 1803 War with France, 1810 Trincomalce.

Expedition against Sultan Tara. 1910 Sambar. 1817-18 Mahratta War, capture of Forts at Severndroog. 1819 Expedition to exterminate plracy in the Persian Gulf. 1820 Capture of Mocha. 1821 Expedition capture against the Benl-koo-Ali Arabs. 1824-26 First Burma War. 1827 Blockade of Berbers and Somali Coast. 1825 Defeat of Beni Yas Pi-rater. 1823 Expedition to Afghanistan and capture of Rameld. 1823 Capture of Aden. rapture of Maricin. 1835 capture of Aden. Captum R. F. J. Wilson, C. H. M. C. S. Wilson, C. H. M. C. S. Wilson, C. H. M. C. S. Wilson, C. H. M. Capture of Maricine and Capture of Moditan. 1848-49

War in Punjab, slege of Mooltan. 1852 Second tor.

Capt. B. H. Jones, R.I.M., Offg. Dy. Director. Burma Wat, Capture of Rangoon, Martaban, Baseln, Prome and Pegu. 1855 Persian Barrein, Prome and Pegu. 1000 1 Bushire, Muhammerah and War, capture of Bushire, Muhammerah and War, 1857-50 The Indian Mutiny. 1839 Capture of the

Island of Beyt. 1860 China War, Canton, Taku Forts, Fatshan and Pekin. 1871 Abyssinjan War. 1882 Egyptian Campaign.

sinian War. 1852 Egyptian Campaign. 1889 Expedian Campaign. 1885 Third Burna War. 1889 Chin-Lehai Expedition. 1890 Suakin Expedition. 1897 Expedition to Institbe, Mombaisa E. Africa. 1899-1902 S. African War. 1909-01 Boxer Rebellion in China, Suakin : telief of Pekin, 1902-04 Somallland Expedition.

1885

Imtirbe,

Personnel, 1917.

DIRECTOR.

Captain Walter Lumsden, O.v.O., C.I.L. 1.-D.-C., Office Residence, Government Dock yard, Bombay (on leave).

(The Director, R.I.M., advises the Government of India on all maritime matters.)

DEPUTY DIRECTOR Captain N. F. J. Wilson, C.M.G., R.I.M., Off.

Capt. B. H. Jones, B.I.M., Oilg. Dy. Direc-

CAPTAIN SUPERINTE DENT.
Captain E. J. C. Hordern, R.I.M., Off. Residence, Marine House, Calcutta.

OFFICERS. 23 Commanders Lieutenants and Sub-Lieutenants 10 Chief Engineers 75 Engineers and Assistant Engineers 11 Marine Survey WARRANT OFFICERS. Gunners . . 20 Clerks . . 20 Engine Drivers

PETTY OFFICERS AND MEN.

2,225 Recruited from the Ratnagiri District of the Bombay Presidency.

SHIPS.

Trockelips	K. I.	. M. S.		.0315 to	ns			Horse Por	Ter.
**			Hartinge*		22		0,300	22	
**		P1.	Northbrook	.*5048	Pt	* *	7,249	11	
Light-house Tender	٠	13	Nearchus .	. 491	>1		753	*1	Persian G.
Station Ship		77	Dalhousie*		•9		2,200	12	_
Despatch Vessel	• •	91	Mayo Lawrence*	1125	**	* *	2,167	11	Rangoon.
	* *	9.1	Tuntence.	203	9.9	* *	1,277	77	+
Symplal Service	• •	22	*otall!	060	19		2,025	"	
Surveying Sldp		10	Investigato		29		1,500	*5	
Station blip	• •	**	Palinurus	200	19	* *	450	**	The Amel 4
		23	Sanbram	234	27	* *	70	99	Port Blair.
River Steamer	• •	**	Lihamo	172	**	4 .	250		Burma.
95 44	* •	>1	Sladen	270	21	* *	260	11	17
			4.0-						

On Special Service.

In addition to the above are 39 launches composed of special service launches, target toning tugs, ponder boats, military service inunches, etc.

Dockyards.

There are two Royal Indian Marine Dockyatds at Bombay and at Calcutta, the former byleg the more important. There are 6 graving dreks and a wet basin at Bombay, together with factories which enables the whole of the regains for the ships of the East India Squadron of the Boyal Navy and for the ships of the Royal Indian Marine and local Governments to earned out, and tugs, light-hips, pilot activity, timeter, etc., constructed.

PRINCIPAL OFFICIES, BONDAY DOCK YARD. R. J. M. Officers.

I' H. Haight, Cale, Eday,

Civilian Officers.

Chief Constructor, Mr. T. Avery, O.LE. Constructor, Mr. D. H. North.

PERSONAL OFFICERS, CALOUTTA DOCKTAED. R. I. M. Officers.

Staff Officer, Commander It. G. Strong, R.I.M. Inspector of Machinery, Lugr.: Capt. J. Lush, R.LM.

CIVIL OFFICERS. Constructor, Mr. E. P. Newnham. Appointments.

In addition to the regular appointments in the ships of the Royal Indian Starine, and in Imports of Machinery, Engr.: Capt. ments under local Governments are held by officers in the Royal Indian Marine :-

Bounay.

Port Officer, As Istant Port Officer, 1st Lugineer and Ship Wright Surveyor and 2nd and 3rd Enclueers and shipwright surveyors to the Government of Rombay,

CALCUTTA.

Port Officer, Deputy Port Officer and Assistant Port Officer, 2nd and 3rd Engineers and shipwright surveyors to the Government of Bengal.

BURMA.

Principal Port Officer, Burma, First As-Istant Port Officer, Rangoon. Engineer and ship-wright surveyor to Government of Burma. Assistant. Do. do. do. do. do.

Port Officer, Akyab, Moulineln and Bassoln, Marine Transport Officer, Mandalay, and Superintending Engineer, Mandalay.

Madras.

Presidency Port Officer and Deputy Conservator of the Port.

CHITTAGONG.

Part Officer, and Engineer and Shipwight Surveyor,

ADEN .-- Port Officer.

KARACHI .- Port Officer.

PORT BLAIR .- Engineer and Harbour Master,

Expenditure.

Recent expenditure on the Royal Indian Marine under all heads has been :-

1913-14		• •		 £	512,846
1014-15		• •	• •	 £	463,370
1915-10				 £	745,513
1916-17				 £	744,000
1017-18	(Estimate)			 £	838 600

Against this were receipts, from Dockyards, for outside work done, and from sales of vessels, stores, etc., which amounted in 1013-14 to £ 89,642 and in 1014-15 to £ 89,200 so that the actual cost to the State for the whole service was:—

1913-14	**		 	 £	423,303
1914-15			 	 £	205,255
1915-16			 	 £	522,250
1916-17			 	 £	371,400
1017-18	(Esti	mate)	 	 £	677,700

THE NICHOLSON COMMITTEE.

The Earl of Crewe (Secretary of State for India) announced in the House of Lords on Kovember 2, 1911, that the Government of India was conducting an inquiry into the various departments, with the view of seeing what conomies might be effected, and in that operation the Department of the Army was properly included, but there would be no sacrifice of the safety of India or any risk in maintaining order. They had been asked by the Government that they should be assisted in making an inquiry into the whole military position by a Committee over which Field-Marshal india. According to the billitary correspondent of The Times June 2 with a division of Sir W. Nicholson would preside.

The Committee met in Simia in May 1912, consisting of:—F. M. Sir W. (afterwards Lord) Lord Nicholson and Sir William Nicholson; Lt. General Sir Fercy Lake, Chief of the General Staff in India; Lt.-Gen. Sir Robert Scallon, Indian Army; and Sir William Moyer, Chief Secretary to the Government of Madms (new Finance Member of Council). The Committee were instructed by their terms of reference;—First, to carry out a comprehensive survey of the various circumstances requiring the use of Millitary Force which may arise out of the external or internal situation in India under the conditions which now exist or may probably arise during the next few years. Secondly, Indian bas taken place within the May Islord Richelson and Sir William consisting what must be called by co lorly report, because the invitious Starting what must be called by consulted by called by the result one received what must be called by consulted by called by casting what must be called by consulting the rost flow profit, and signed what must be called by consulting the must be called by consulting the rost flow profit, and signed what must be called by consulting the casting vote. But Sir Percy I Robert Scallon are received with the made by their colleagues, and want to minority report." During the use of the external or internal situation in India under the conditions which now exist or may probably arised the conditions of the Committee when the invitious starting what must be called by consulting and starting what must be called by c

to consider and report on the numbers and constitution of the armed force which should be maintained in India to meet these obligations. Thirdly, to consider and report whether any, and if so, what measures for the reduction of Military expenditure are compatible with the efficient maintenance of that force. Its deliberations, which were private, continued until Lord Nicholson left India in April, 1913, and it was announced in the House of Commons that the Committee's report would not be published. According to the Military correspondent of The Times (June 2, 1913) it has "been known for some time past that a division of ophion has taken place within the Committee. Lord Nicholson and Sir William Meyer have signed what must be called by courtery a majority report, because the distinguished Micholson are oredited with having taken strong exception to many of the proposals mado by their colleagues, and will doubties direct a minority report." During a discussion in the Imperial Legishaive Council on January 14th, 1914, it was officially stated that the report would not be published. Any action on the conclusions of the Committee is necessarily lield in aboyance during the War.

perial and Provincial. The second point is Provincial and Imperial-At this stage that a very large proportion of the revenue of the one point should be made clear. Study of the that a very large proportion of the revenue of the forms at very large proportion of the revenue of the forms at the forms are state enterprises. It is not taken roughly that nearly two-thirds of the greek revenue is derived from courses of the greek revenue is derived from courses of the greek revenue is derived from tources other than taxation, such as the land revenue, optim, facets, tribute from Native States, posts and telegraphs, railways and irrigation. The third point is that the Secretary of State for India enters into very large intraction and the country of the country of the country, the Government in order to meet what are generifiedly known as the Home Charges, These lands are met by the Secretary of State selling for gold drafts in rupees on the Indian Treasures in many years erroneously described as a "drain" on India. A large proportion however goes to defray the interest on the stelling debt and the outlay on the purchase of stores and railway materiels which cannot be acquired in India. The only part of the Home Charges which by any stretch of the imagination on health of the large surpluses in part to the extinction of flower ment did not reduce in the avoidance of further relebt for gold drafts in rupees on the Indian Treasures. These large is a surpluse in improving clueation and sonitation. But the spending of this money involved long presures that the outlay on the purchase of stores and railway materiels which cannot be acquired in India. The only part of the Home Charges which by any stretch of the imagination of the large of 1914-15—the Indian flannein real revenues.

First War Budget extincts had been made clear, Study of the flagues of 1914-15—the Indian flannein by £4,050,000. The most rigid economy failed to had the extended as a "drain" is that which stands for civil and military officers on leave or pension, and here it is now recognised that India receives executingly good value for gervices. pension, and here it is now recognised that India receives exceedingly good value for services rendered. One supplementary point which needs consideration is that the finances of India were antificially inflated for several years by the unusual opium receipts. The Government the unusual opium receipts. The Government before the close of the year, and decided to of India used to rell opium for export to meet the deficits by temporary and permanent China or the right of exporting opium to China betrowing. For this they had justification, and in view of the approaching end of this trade. In the past, it has been the practice of the Govinflated prices were given for opium for export. This led to have windfall surpluses largely the state and data to use their surpluses largely the state and data to the practice of the control of t infinited prices were given for opium for export. This led to large windfall surpluses which for several years made the Government finances appear more prosperous than they really are.

Twelve Years' Finance.

We may now turn to the financial results of the last twelve years la pounds sterling.

		Revenue,	Expendi- ture.	Surplas.
		· E·	£	£
1906-7	••	73,100,000	71,500,000	1,000,000
1907-8		71,000,000	70,700,000	300,000
1005-0	**	60,800,000	73,500,000	*3,700,000
1009-10		74,600,000	74,000,000	600,000
1910-11	**	80,300,000	76,000,000	3,400,000
1011-12		82,836,750	78,895,416	3,940,384
1012-13	••	80,085,300	83,023,400	3,361,900
1013-14		84,202,000	83,075,000	687,000
1014-15		80,150,000	85,115,000	*4,959,000
1015-10		82,620,000	85,204,000	*2,644,000
1016-17 1917-18	••	96,834,900 98,850,000		5,817,500 129,800

. Deficit.

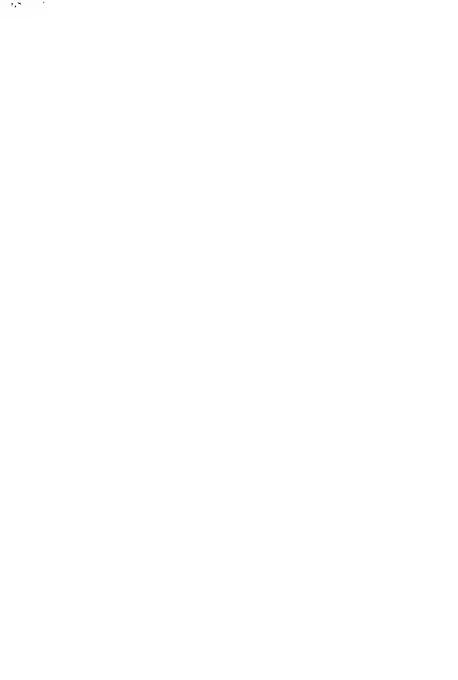
of £4,050,000. The most rigid economy failed to balance the Budget estimates for 1915-16 by £3,833,660. The Government had therefore to decide whether they would neet the actual and prospective deficits by borrowing or by the imposition of fresh taxation. They speculated on the assumption that the war would be over for the avoldance of debt for the construction of reproductive works, and at the same time to meet any deficit not by temporary borrowing, but by additional taxation; it was therefore only an act of justice to meet what was expected only an act morary was desicit by borrowing, Government therefore proposed to continue the loan of £ 7 millions from the Gold Standard Reserve, to renew the £7 millions of floating debt in London, to borrow £3 millions in India and £61 millions in London. In these ways they expected to maintain a fair scale of expenditure and a reasonable outlay on reproductive works without recourse to fresh taxation.

Second War Budget .- The Budget of 1015-16 having been based on the assumption that the war would be over before the close of the finanelal year, it was obvious that Iresh taxation would be necessary to meet the conditions arising out of the prolongation of hostilities, Moreover there were certain adverse circumstances in the year. The monsoon rains were not good. The Customs revenue showed a certain decline. The railway receipts were good; this has now become an important head in the Indian Budget, whereas in past years the rallways did not pay interest charges; the larger revenue arose in part from a brisk internal trade and in part from the substitution of rall-borne for sea-borne coal from Bengal to the rail-borne for scar-bothe con from length to the chief consum ng centres. The borrowing pro-gramme was interrupted. In the Budget, the Secretary of State calculated on borrowing £61 millions; in practice he raised only £3:1 quillons. Rigid economy was exercised in the



The details of the budget are set out in the following table. As the manner in which the great heads of income like land revenue, railways, irrigation and customs are realised is described in separate articles (q. v.) they need not detain us here:—

				······
		Accounts, 1015-1016.	Revised Estimate, 1916-1917.	Budget Estimate, 1917-1918
REVENUE.	!			· ·
Principal Heads of Revenue-	- 1	3	£	£
Land Revenue		22,031,161	22,063,500	22,261,600
Oplum		1,913,514 3,647,687	3,153,100	3.389.300
Salt	***	5,447,087 5,438,632	4,785,900 5,820,900	3,072,000 5,065,400
Excise		5,458,532 8,632,200	9,152,500	1 9,291,700
Customs	**	5,873,890	8,600,100	9,394,800
Other Reads		5,831,386	7,030,500	8,554,900
TOTAL PRINCIPAL HEADS		52,866,375	60,684,500	62,830,500
Intérest		1,000,417	1,110,100 4,176,700	2,095,700
Post and Telegraphs		3,787,478	4,176,700 624,600	4,345,700 139,100
Mint Receipts by Civil Departments		101,018	1,091,400	1,700,200
Miscellaneous	•••	G79,488	800,500	743,000
Railways: Net Receipts		17,977,103 4,779,079	20,981.000 4,979,600	20,253,000 6,125,300
Other Public Works		304,035	200,800 }	285,200
Military Receipts		1,241,740	1,469,800	1,327,100
TOTAL REVENUE		84,413,537	06,834,500	93,859,900
DEFICIT		1,183,661		****
TOTAL		85,602,108	96,834,500	93,850,990
EXPENDITURE.				
Direct Demands on the Revenues		9,467,370	9,493,700	10,026,100 6,832,800 8,601,900
Interest		1,100,364	701,800	6,832,800
Post and Telegraphs		3,149,690 89,372	3,555,500 172,500	115,800
Salaries and Expenses of Civil Departments	1	18.868.219 I	19,610,100	20,920,100
Muscellaneous Civil Charges		5,128,675 1,000,000	1,000,000	5,577,200 1,000,000
Famine Relief and Insurance Railways: Interest and Miscellanco	1129	1,000,000	2,000,000	•
Charges		13,901,065	14,185,300	14,147,400
m . 1 11		3,721,008 5,451,727	3,687,000 4,726,400	3,834,100 6,536,500
		23,503,003	26,819,800	5,536,500 27,227,100
Total Expenditure, Indicial And Provincial	SD.	85,471,258	89,455,500	93,819,390
Add—Provincial Surpluses, that is, portle of allotments to Provincial Gover ments not spent by them in the yea	70-	335,711	1,590,200	200,400
Deduct-Provincial Deficits, that is, portic of Provincial Expenditure defrays from Provincial Balances	cq on	201,771	29,700	323,600
TOTAL EXPENDITURE CHARGED TO REVENU	JE -	85,002,199	91,017,000 5,817,500	99,721,100 129,860
Total		85,602,109	20,634,500	08,850,660



densely. In my a latter we ended and effect of the collisator by prohibiting the allemation representative. The Research of Related at the land in parment of debt. It had the Great Community Vice is been a few to effect of arrating the process by which the limits is defined at their few of Research 1900. Pought presenting were becoming the grounding in it is may about that "he for the existing leafs of improvements. A good deal of high It is it was about that "the for the existing perfect in many denders. A point deal of legis-for here the finished ent to alterally taking after him affecting built tenture has been passed from here to exceed that it is constanted for feen time to time in other provinces, and it exactly as I "the ancient rate is executive, by the first one practic." The Resisting, to where under the Permanent Settlement din getter with it as alcounts of from risk that the morals of the Resisting quarter himself. the moote con militals it was based man politically at In a notice of its still the mill reliation engage title, of the pureliles controlling the faid Besente Police of the Concentrate of India In a series of proposition claimed to be re-It a series of proposition cannot be ex-tributed by the Rescalation the following points are noted with in Tennedar, tracta proposition restriction in the Anguele of the a venue to prive, and the atmospherical for per cost, of the granters more often deputed from in the o'te of defeliney than excess; 193 in the eathe areas the State does not he-liste. to leteriete by legislation to protect the inter-ests of the tenants, against Oppression at the har is of the lay Bonds; (3) in Evoluted tracts the policy of transferm estilements is being extended, and the proceedings in connection with new settlements simplified and cheapenel; (4) local-taxation (of land) as a whole is neither immolerate nor burdensome; (5) exergisesment is not, as affected, a general or offerpread course of paverty, and it cannot fairly be recarded as a contributory cause of faining. At the same time the Government taid down as principles for future ambiance— (a) large cultimenments of tevenire, when they eccur, to be imposed progressively and gra-dually, and not per villum; (b) greater classi-city in revenue collection suspensions and remissions being allowed according to reasonal variations and the circumstances of the people. (e) a more general resort to reduction of assessments in eases of local deterioration.

Protection of the Tenants.

In regard to the second of the five propositions noted above, various Acts have been passed from time to time to protect the in-terests of tenants against landlords, and also terest of tenants against famous and assot of the five greater security to the latter in possession of their holdings. The Oudh Tenancy Act of 1850 placed important checks on enhancement of tent and eviction, and in 1900 an Act was passed enabling a landowner to entall the whole or a portion of bis estate, and (Superintendent of Government," 1902 to place it beyond the danger of allenation by Baden Powell's "Land Systems of British his heirs. The Punjab Land Allenation Act, passed at the instance of Lord Curron, embadied the principle that it is the duty of a Government which derives such considerable proportion of its revenue from the land, to incline the treatment of the interests of the cultivating tration Reports of the respective Provincial Clares. This Act greatly restricted the credit Government.

"ea far from being governmely treated by the Zemladare the Bengal cultivator was rackrented imposerished and appresent,"

Government and Cultivator.

While the Government thus interferes between landleed and tenant in the interests of the latter, its own attitude tonards the culthator is one of generodty Mention has altrady been made of the great advantage to the addicultural classes generally of the claims tote systems of Land Survey and Records of Bights carried out and maintained by Government. In the Administration Report of Bombay for 1911-12 if is stated - The Survey Department has cost the State from first to fast many takks of rupees. But the outlay has been reput tower and over again. The extensions of cultivation which have occurred (by allowing cultivators to abandon unprofitable lands) have thus been profitable to the State no less than to the bullyblual: whereas under a Zemineari or kindred system the State would have gained nothing, however much cultivation had extended throughout the whole of 30 years' leaser." On the other hand, the system is of advantage to the mote in ecducing ecttlement operations to a minimum of time and procedure. In the collecpursues a cenerous policy. In times of distrees suspensions and remissions are freely granted after proper inquiry.

The amount of gross revenue raised on the land is estimated in 1917-18 at £22,261,000 out of a total from all sources in the same year of £80,100,600. This compares very favourably with the \$31,000,000 of land revenue recorded as linving been enteed annually from a smaller empire by Aurangzebe.

The literature of the subject is considerable. The following should be consulted by renders who require fuller information :-" Land Reve-nue Policy of the Indian Government," 1902

EXCISE.

The Excise revenue in British India is derivituous liquers was commonly practised and col from the manufacture and sale of intexica- was a source of revenue. ting liquors, hemp, drugs toldy and opium. It is a commonplace amongst certain sections of tense and applied in present the traffic in sumed are country spirit; fermented paim juice; intoxicating liquors as one created of British rule. There is, however, abundant evidence to show brandy, etc., locally manufactured matt bear and that in pre-British days the drinking of spiri- imported wine, beer and spirits. Country spirit is

lency, and yields about two-thirds of the in receipts from liquors. It is usually prepar-red by distillation from the lihowra flower. malasses and other forms of unrefined sugar, fermented palm julce and rice. In Madras a very large revenue is derived from fresh toddy, The British Inherited from the Native Administration of the control of the contr Out-Still uncontrolled istration either an System or in some cases a crude Farming System and the first steps to bring these systems under control were the limitation of the number of shops in the area farmed, and the establishment of an Improved Out-Still System under which the combined right of manufacture and sale at a special shop was annually granted. This of course was a kind of control, but it only enabled Government to impose haphazard taxation on the liquor traffic as a whole by means of vend fees. It did not enable Government to graduate the taxation accurately on the still-head duty principle nor to insist upon a standard of purity or a fixed strength of liquor. Moreover for political and other reasons the extent of control could not at first be complete. There were tribes of aborigines who regarded the privilege of making their own liquor in their private homes as a long established right; and who believed that liquor poured as libations to their god should be such as had been made by their own hands. The introduction of any system amongst those people had to be worked very cautiously. Gradually, as the Administration began to be consolidated. the numerous native pot-stills scattered all over the country under the crude arrangements then in force began to be collected into Central Government enclosures called Distilleries, thus enabling Government to perfect its control by narrowing the limits of supervision; and to regularize its taxation by imposing a direct sill-head duty on every gallon issued from the Distillery. Under Distillery arrangedirect sim-nead duty on every games issued from the Distillery, Under Distillery arrangements it has also been possible to regulate and supervise thoroughly the manufacture of iliquor and its disposal subsequent to its leaving the Distillery by means of a system of transport passes, establishment supervision, improved distribution and vend arrangements.

Various Systems.

The Out-Still System may be taken to include all systems prior in order of development to the imposition of Still-head duty. Briofly stated the stages of development have been—first; farms of large tracts; Second: farms of smaller areas; Third: farms of the combined right to manufacture and sell at particular places without any exclusive privilege over a definite area; Fourth: farms of similar right subject to control of means and times for distilling and the like. The Provincial Governments have had to deal with the subject in different ways suited to local conditions, and so the order of development from the lower forms of aystems to the higher has not been always everywhere identical in details. Yet in its essence and main features the Exclas Administration in most provinces of British India has progressed on uniform lines the key note lying in attempts, where it has not been possible to work with the fixed duty system in its simplest forms, to combine the farming and fixed duty systems with the object of secur-

in main source of revenue, except in the Madras of the leave, and yields about two-thirds of the last in its turn been superseded by either the dby distillation from the Madras very collected palm juice and rice. In Madras a very large revenue is derived from fresh toddy, he British inherited from the Native Administration either an uncontrolled Out-Still system or in some cases a crude Farming System monopoly system on the other hand is one in which first steps to bring these systems under ontrol were the limitation of the number of the first steps to bring these systems under ontrol were the limitation of the number of the first steps to bring these systems under ontrol were the limitation of the number of the all manufacture and sale in a district is leased to a farmer ture and sale in a district is leased to a farmer subject to a certain amount of minimum still-head duty revenue in the monopoly area being quaranteed to the State during the term of the lease.

The recommendations of the Indian Excise Committee of 1905-00 resulted in numerous reforms in British India, one of them being that the various systems have been at are fradually being superseded by the Contract Distillers System under which the manufacture of spirit for supply to a district is disposed of by tender, the rate of still-head duty and the supply price to be charged are fixed in the contract and the right of vend is separately disposed of. This is the system that now prevails over the greater portion of British India. The other significant reforms have been the regulations, and the conditions of manufacture, vend, storage and transport, an improvement in the quality of the spirit, an improved system of disposal of vend licenses, reductions and re-distributions of shops under the guidance and control of local Advisory Committees and gradual enhancement of taxation with a view to checking consumption.

Since the 'ssue of the report of the Excise Committee, 1905-06, no less than 213,000 square miles of territory were transferred from the out-still to the distilling system. In 1905-06 30 per cent. of the total excise area and 28 per cent, of the population of that area were served by out-stills, the proportions in 1912-13 were only 15 and 8 per cent. respectively.

The incidence of the total revenue derived from country distillery spirits per proof gallon during the quinquennlum 1998-09 to 1912-13 was as follows:—

1908-00	• •	••	Rs.	
1909-10	• •	• •	** 23	5172
1910-11 1911-12	• •	• •	** 2)	5.40 5.84
1912-13	• •	• •	** **	6.02

In the last year the incidence was highest in Berar 7:24 and lowest in Behar and Oriss 3:28. The average consumption of country spirits per 100 of the population in the distillery areas during the above period was as follows—

1908-09	**		Gallons	LP.	4.43
1003-10	* *		27	11	4.11
1910-11	* *	• •	*3	33	4.40
1911-12 -1912-18	**		8.7	23 .	4:52
-TATE-TO		4.0	41		4'75

In 1012-13 it was highest in Bombay 15:22 and lowest in Bengal 2:18.

India has progressed on uniform lines the key note lying in attempts, where it has not been possible to work with the fixed duty system or after fermentation. In Madras and Bombay in its simplest forms, to combine the farming and fixed duty systems with the object of security tree from which it is intended to draw the liquor

and from shop license fees. In Bengal and Burma f tops of the cultivated female hemp plant; he sale of shop licenses is the sole form of taxalon. Country brands of ram, and so-called mandles and whickles, are distilled from grape ulce, etc. The manufacture is carried out in rivate distilleries in various parts of India. A number of broweries has been established, nortly in the hills, for the manufacture of a

Poreign liquor is subject to an import duty t the tariff rates, the most important of which is Rs. 11-4-0 per proof gallon on spirit and 4 mas 6 pies per gallon on beer. It can only be old under a license.

Since the war Brandy and Whisky are manu-actured in considerable quantities at Baroda. he base used is the Mhowra flower. It is runkin big towns as a substitute for German pirit, and is excised at tariff rates.

DRUGS.—The narcotic products of the hemp lant consumed in India fall under three main

discellaneous transit dues. These transit dues ere abolished and the salt duty consolidated

charas, or the resinous matter which forms an active drug when collected soparately; and bhang, or the dried leaves of the hemp plant whether male or female cultivated or uncultivated. The main features of the existing system are restricted cultivation under supervision, storage in Bonded Warehouses, payment of a last beer for European and Eurasian consump lon. The uniform fee of 4 annas 6 ples per licenses and restriction on private possession. Allon is levied all over India at the time of Licenses to retail all forms of hemp drugs are usually sold by auction

> OPIUM.—Oplum is consumed in all provinces in India. The drug is commonly taken In the form of pills; but in some places, chiefly on social and ceremonial occasions, it is drunk dissolved in water. Opium smoking also prevails in the City of Bombay and other large towns, the general practice is to sell oplum from the Government Treasury, or a Central Warehouse, to licensed vendors. The right of retail to the public is sold by annual auction to one or several sanctioned shops.

The opium revenue in 1917-18 is estimated at ategories, namely, ganja or the dry flowering £3,380,300, and the Excise revenue at £0,291,770.

SALT.

The sait revenue was inherited by the British both for Bengal and Burma, is imported from lovernment from Native rule, together with a Liverpool, Germany, Aden, Bombay and Madras,

Broadly, one-half of the indigenous sait is manufactured by Government Agency, and the remainder under license and excise systems. In the Punjab and Rajputana the sait manufactories are under the control of the Northern

om the Sambhar Lake where brine is extracted and evaporated by solar heat. In the Rann f Cutch the brine is also evaporated by solar cat and the product is known as Barazara at l. In Bombay and Madras sea water is in 1005 to Rs. 1-8; in 1907 to Rc. 1 and att. In Bombay and Madras sea water is in 1016 it was raised to Rs. 1-40. The successive it into shallow pans on the sea-coast and eva-consumption in the figures rising by 25 per cent. hroughout India. In Bengal the damp climate between 1903-1908. To illustrate the growth of opether with the large volume of fresh water from the Ganges and the Brahmaputra into per manual, the revenue was \$5.880,088, for the Bay of Bengal render the manufacture of a salt difficult and the bulk of the supply, revenue is \$3,072,000.

nd raised: There are four great sources of upply; rock salt from the Salt range and cohat Mines in the Punjab; brine salt from no Bambhar Lake in Rajputana, sait bring ondensed on the borders of the lesser Rann of bitch; and sea sait factories in Bombay, Madras and act the mouth of the Indus.

The Sait Range mines contains an inexhausible supply. They are worked in chambers reavated in sait strata, some of which re 250 feet long, 45 feet wide and 200 at high. The Rajputana supply chiefly comes com the Sambhar Lake where brine is extracted and evaporated by solar heat. In the Rann 1888-1908 the duty of the free movement of prevent the smuggling of sait into British India.

CUSTOMS.

The import duties have varied from time to me according to the financial condition of the country. Before the Mutiny they were ve per cent.; in the days of financial stringerey high followed they were raised to 10 and in one cases 20 per cent. In 1875 they were raised to 10 and in one cases 20 per cent. In 1875 they were raised to five per cent., but the opinions of 'ree Traders, and the agitation of Lancashire were satisfied by a general duty of 'ree Traders, and the agitation of Lancashire were satisfied by a general duty of 'goods by sea, an excise duty on goods 'ree Traders, and the agitation of Lancashire were satisfied by a general duty of 'goods by sea, an excise duty on goods by sea, a

tee levied on petroleum, tobacco, wines, duce £1 million annually.

The Customs Schedule was completely recast In the Budget of 1916-17 in order to provide additional revenue to meet the financial disturbance set up by the war. The general import tailif, which had been at the rate of 5 per cent. ad ratorem since 1891 was raised to 71 per cent. ad rolorem, except in the case of sugar; as India is the largest producer of sugar in the world the import duty on this staple was fixed at 10 per cent. There was also a material curtailment of the free list. The principal article of trade which was not touched was cotton manufactures. For the past twenty years the position has been that cotton twists and yarns of all kinds are free of duty while a duty at the rate of 34 per cent, is imposed on woven goods of all kinds whether imported or manufactured in Indian mills. The Budget lett the position as it stood. The Government of India would have been glad to see the tariff raised to 5 per cent. without any corresponding alteration of the oxcise, but were over-ruled by the Cabinet on the ground that this controversial matter must come up for discussion after the war. the Budget imposed export duties on ten and jute. In the case of ten the duty was fixed at Re. 1-8-0 per 100 lbs.; in the case of jute the export duty on mw jute was fixed at Rs. 2-4-0 per l bale of 400 lbs., approximately equivalent to an ad rainem duty of 5 per cent. manufactured jute was charged at the rate of Rs. 10 per ton on sacking and Rs. 16 per ton on Bessians.

The Customs Tariff was further materially modified in the Budget for 1917-18. In the previous year an export duty on jute nas imposed at the rate of Rs. 2-4-0 per bale of 400 lbs. in the case of raw jute and Rs. 10 per ton on sackings, and Rs. 16 per ton on Hossians; these rates were doubled, with a view to obtaining an additional revenue of £500.000. The import duty on cotton goods was raised from 31 per cent, to 71 per cent. without any alteration in the Excise, which remained at 31 per cent. This change was expected to produce an additional revenue of £1,000,000. The question of the Excise was left untouched, for the reason, amongst others, that the Government could not possibly forego the revenue of £320,000, which it was expected to produce. With these changes in operation the revenue from Customs in 1917-18 was estimated at £9,394,800.

The Customs Department is administered by an Imperial Customs Service responsible to the Imperial Government in the Department of Commerce and Industry, but acting through the Local Governments. The senior Collectors Civilians specially chosen are Covenanted for this duty; the subordinates are recruited in India and in England (Customs Tariff q. v.)

Income Tax.

The income tax was first imposed India in 1860, in order to meet the financial dislocation caused by the Mutiny. It was levied at the rate of four per cent. or a

5 per cent, to id, an ounce, and higher changes have from time to time been made in the system, and the present schedule was con-solidated in the Act of 1886. This imposed a tax on all incomes derived from sources other than agriculture which were exempted. lucomes of 2,000 rupees and upwards it fell at the rate of five plea in the ruper, or about #Ia. in the pound; on incomes between 500 and 2,000 rupers at the rate of four pies in the rupee or about 5d. In the pound. In March 1903 the minimum taxable income was raised from 500 to 1,000 rupecs. The income-tax schedula was completely revised, raised, and graduated in the Budget of 1916-17 in the general scale of increased taxation imposed to meet the deficit arising out of war conditions. All existing exemptions were left untouched and no alterntion was made in the taxation of persons whose incomes, official or private, were less than Rs. 5,000 per annum. In the case of incomes which exceeded the sum of Rs. 5,000 per annum the tax was enhanced in the following way :-

(1) Incomes from Rs. 5,000 to Rs. 9,999 pay 6 ples in the rupee, or 71d, per pound.

(2) Incomes from Rs. 10,000 to Rs. 21,999 ray it pies in the rupee, or 111d. in the pound.

(3) Incomes of Rs. 25,000 and upwards pay I amn in the rupec, which is equivalent to 1s. 3d. in the pound.

Profits of companies are assessed at the 1 anna rate; but this is subject to abatement or exemption, to individual shareholders who can show that their total income is such as to warrant a lower rate of taxation or none at all. Thus a shareholder whose income is less than Rs. 1,660 per annum from all sources obtains a refund of the entire tax previously recovered on his dividends; a man whose total income is Rs. 5,000 obtains a refund of the amount recovered in excess of the 6 ple rate; and so on.

In the Budget of 1917-18 the income tax was left untouched; but there was imposed a super-tax.

The super-tax begins in respect of income exceeding Rs. 50,000 and is levied on the following scale :-

For every rupce of the first Rs. 50,000 of the excess, i.e., between Rs. 50,000 and I lakh: 1 auna per rupeo.

For every rupee of the next Rs. 50,000 of the excess, i.e., between 1 and 1½ lakhs: 1½ annas per rupee.

For every rupes of the next Rs. 50,000 of the excess, i.e., between 1; and 2 lakbs: 2 annas in the rupce.

For every rupes of the next Rs. 50,000 of the excess, i.e., between 2 and 21 lakhs: 21 annas per rupec.

For every rupee of the next Rs. 50,000 of the excess, i.e., on everything over 2} lakhs: 3 annas per rupee.

These rates are, of course, in addition to the standard income tax at the rate of 1 anna in the rupee. The maximum income tax levied on this scale amounted to five shillings in the pound, income tax and super-tax combined.

little more than 01 d. in the pound on all incomes year is estimated at £5,120,800 of which the of five hundred runsed and an all incomes year is estimated at £5,120,800 of which the The total yield of the income tax in the current of five hundred rupees and upwards. Many super-tax will contribute £1,350,000.

THE DEBT.

To understand the debt of India it must be renembered that the Government of India is always a borrower. The country still needs a vast tapital exp aditur both on Railways and irrigation; indeed the exp nditure on railways is always conditioned not by the needs of the country, but by the ability of the market to supply capital—a supply which is always un-equal to the demand. In the case of irrigation the supply of capital has of late years been equal to the amount which could be spent; great irrigation schemes require long and claborate investigation and when the investigations a complete the actual construction of the works is governed by the labour supply, which is in-creasingly expensive and rarrly equal to the demand. These conditions make India s constant borrower, and she raises every year as much money as the Indian and London money markets can supply. The whole of this money is spent on productive works. The Indian rallway system now returns to the State, after paying sliinterest charges and certain annuities for the redemption of capital, a surplus which varies with the character of the season. The irrigation works return a profit of over five per cent. Whilet therefore India is a constant borrower, she borrows only for expenditure or productive works. Her finance is even mon conservative than this, for in most years a sum is set apart from the revenue surplus for expenditure on capital works. Through the operation of this policy the unproductive debt of India has been reduced to negligible propor-tions. It has been estimated by competent financiers that if a fair balance sheet were struck the balance would be on the right side.

When the trading charter of the East India Company expired in 1835, the rupec debt was Rs. 332'05 millions. Fifteen years later, 1850-51, the debt reached Rs. 453.80 millions. and it stood at almost exactly that sum in the year preceding the mutiny of 1857. That convulsion caused a large increase in the ruper debt which stood at Rs. 635.55 millions in 1859-60. the year following the suppression of the revolt. The debt then gradually rose to Rs. 697-57 millions by 1874-75, and another large increase occurred in the succeeding decade, due to the great famine of 1877-78 and to the military operations in Afshanistan which followed the famine. By 1883-84 the rupes debt rose to Rs. 931'25 millions. There was then a further increase to Rs. 980'4 millions in 1887-88, to Rs. 1,007'48 millions in 1888-89, Rs. 1,052°8 millions in 1893-04. A three per cent. loan was raised in July 1800, and the debt stood at Rs. 1,082'12 millions at the end of 1896-07 and increased to Rs. 1,101-90 millions in 1903-04, to Rs. 1.258.75 millions in 1905-06, to Rs. 1.306.67 millions in 1909-10, and to Rs. 1,597'03 millions in 1911-12.

A four per c'at terminable loan of Ra. 41 crores (£ 3 million-) was l-sued in 1915, and sucther of Ra. 6.77 coors in 1916. The pre-en dimensions of the delt are given below under the head of "juterest."

Storling Debt. .

The interest-bearing sterling dobt was very small until the muriny year. Int the increase was rapid after that. As in india, the rate of interest on the sterling dobt has been gradually reduced from 4, 41, and 5 per cent. to 21, 3, and 31 per cent. respectively. At the end of 1910-11 proportions of the debt held at these rates are £11,802,207 at 21 per cent.,£00,724,530 (including 3 per cent., India stock of the nominal value of £3,000,000 issued in August 1900, £2,000,500 issued in 1901-02, £1,500,000 issued in 1903-04, £2,500,000 issued in 1904-05, £12,089,146 issued in 1905-06, and £2,000,000 issued in 1906-07, at 3 per cent. and £85,511,748 at 31 per cent. In May 1907 a 32 per cent. sterling ioan of £3,500,000 was talsed and in January 1900 a further 31 per cent. loan of £5,000,000 was raised towards providing for isliws: capital expenditure of 1908-00 and for the discharge of certain Bombay, Baroda and Central india Railway debentures. Similarly in February 1900, a loan of £7,500,000 and in January 1910 a further loan of £7,500,000 multiply in February 1900, a loan of £7,500,000 were issued at the same rate of interest. In October 1910, 31 per cent. India Bonds for £4,000,000 were tssued for the discharge of the Madras and Indian Midiand Railway debentures and in March 1911 a new 31 per cent sterling loan of £5,500,000 was issued to provide funds of capital expenditure in 1911-12.

Rollway Expenditure.

A large proportion both of the sterling and of the rupce debt was incurred in connection with the construction of railways and other public works. Considerable additions to the rupce and sterling debt were made in the two years 1896-97 and 1897-98 in consequence of famine, plague, war, and the prosecution of railway extension, and to the sterling debt in 1900 and subsequent years for the purchase of the G. I. P. Railway, the discharge of its dependires, and advances of Indian Italiway Companies. In addition to the loans raised during 1907-08 the Secretary of state incurred liability in respect of £2,144,800 debentures of the Madras Railway Company on the purchase of the undertaking on the 31st December 1907. In the Budget of 1916-17 the total intense charges £4,957,0 a are distributed at Icil was:—Railways £4,147, 10; Irrigation £1,500,400; Interest on ordinary debt £208,000.

Interest.

The interest on the rupee debt was at the rate of six per cent. In 1822, and the debt bearing this rate was not finally paid off until 1858-50. Meanwhile the Government borrowed, from 1823 until 1862-53, at five per cent and from 1824 (but in a small way until 1835) at four per cent. The bulk of the five per cent, debt was converted to four per cent in 1854, but the shock to the credit of the State caused by the mutiny necessitated more borrowing at the higher rate of five per cent and that loan was not finally extinguished until 1871. Meanwhile the Government were compelled to borrow at 51 per cent. in 1850, and this 54 per cent. loan was not closed until 1878-79. A small sum was borrowed at 41 per cent. in 1850-57, and the debt at this rate of interest was largely increased in 1871 by the

conversion of the 54 per cent. loan. By 1878-70 The debt provided 1 practically the whole rupee debt bore interest at 1916-17 is as follows:— At and 49 per cent. Rs. 151'48 millions at 41, and Rs. 03'98 millions at 4 per cent. The 44 per cent. loans were all converted to 4 per cent. by 1803, save for a sum of Rs. 10 millions, being a loan from the Maharaja Holkar on account of the Indore State Railway, which is not convertible until about 1970. In the same year a small loan of Rs. 35 6 millions was raised at 34 per cent. and in the following year the bulk of the 4 per cent. loans was converted to the rate of 31 per cent. In 1896-97 a new loan of Rs. 40 of 31 per cent. In 1800-97 a new loan of Rs. 40 millions was raised at 3 per cent. On the 4th penditure on interest of Rs. 60,63,40,000 in India, July 1900 a loan of Rs. 30 millions was raised at equivalent in sterling to £ 4,422,700; and in 31 per cent, and this was followed by other leads of £ 11,155,800; or a total of leans at the same rate of interest. loans, at the same rate of interest.

The debt provided for in the Budget for . Sterling .. £ 174,171,529 Rupco Debt-

15,00,01,000 21,20,71,000 Indian War Loan .. Br. 4 per cent. 7,10,17,200 Bl per cent. 3 per cent. ** 1,(0,15000 Other debt 28,37,00,600 Savings Bank Balances

£ 15,578,500.

Absorption of Gold in India.

(In lakhs of Rupees)

						(215 50		
		1009-10.	1010-11.	1011-12.	1012-13.	1013-14.	1014-15.	1913-16.
1,	Net annual addition to the stock of the country	16,000	18,000	27,000	25,000	18,000	7,000	1,600
2.	Progressive total of additions to the stock	144,000	102,000	189,000	214,000	232,000	230,000	240,600
3.	Held in mints and Govern- ment Treasuries and Cur- rency and Gold Standard Reserves		6,000	16,000	20,000	15,000	10,000	8,000
4,	Net annual variation in item 8	6,000	••••	10,000	4,000	5,000	5,000	2,000
5.	Net progressive absorption	138,000	156,000	173,000	104,000	217,000	220,000	232,600
0.	Absorption of the year .	10,000	18,000	17,000	21,000	23,000	12,000	3,000

Note:—Item 1 shows the amount of gold produce in India plus the net imports (i.e., imports minus exports). In 1015-16 the gold produced was £2,300,845 minus are exports £730,412—£1,000,000 in round figures. Item 2 shows the progressive total of the figures in item 1 to the end of each year. Total at end of 1014-15 £239 millions plus figure for 1015-10 £1,600,000—£240,600,000 at the end of 1015-10. Item 2 shows the reserve held in India in each year. Item 4 shows the annual variations in the actual amount held in the mints and in the reserves in India. Amount held in 1015-10 £8 millions minus that held in 1014-15 £10 millions is equal to £2 millions shown against this item in 1915-10. Item 5 shows the difference between item 2 (progressive total) and 3 (amounts held in the minus, etc.) £240,600,000 minus £81 millions £222,000,000 during 1915-10. Item 6 shows the difference between two successive figures in item 5. £222,000,000 minus £222 millions—£3,000,000 during 1915-16; or, in other words, the difference between them 1 (annual addition to the stocks) and item 4 (net variation in item 3); £1,000,000 minus (—2,000,000), i.e., £3,000,000 is the net absorption of the item 3); £1,600,000 minus (-2,000,000), i.e., \$3,000,000 is the net absorption of the

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	AXO	DET of	the I	RUPER and STERL	ANOUST of the Ruper and Strains Denr and of the Interest thereon; annual lactures to 1913-16.	t the extenses to	iercon; annual 13 London, from	1820-21 to 1015-1	10.		
				and the				tmount borrowed and paid	red and paid	Proportion of	
		,		recetored	Registered		e 77	(Borrowed + : Pald off-)	; pald off—)	rapre debt	
		1		debt in India.	debt in London.	Interest payable		In India.	In England.	Jist Hamb	
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				135.	니	Ra.	61	10.73.070	102,503		-
18-00-31	. :	•	:	27,24,77,630	5,762,899	1,63,15,400	00.07	175,52,10	66		
1830-31	:.	: :	: :	20,47,65,040	1,750,002	1,35,37,050	125,492	1.00.1	41,154,600		
1850-51	::	::	::	45,12,87,550	3,920,592	2,89,34,400	1,010,832	0.000	41,619,001	Ξ	
1800-01	* :	:	: :	63,42,08,450	32,110,217	0 00 00 00 00 00	130.76	10.02.01	5,27,27		-,,,,,
1862-03	::		:	63,82,11,060	31,860,017	2,88,06,180	1,300,621	05) 12:07	(U216)		
1863-64	: :	. ;	::	63,30,66,810	20,146,017	2,83,00,100	Tarrest I	050 87 50	4423,570		
100 acc	:		1	62.39,10,770	20,007,317	2,91,13,000	0101101	+30.73.463	F 5 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	-
1866-67	::	::	:	02,07,84,230	28,559,917	2,91,57,960	50000	10100	E 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
1867-63	:	::	::	03,70,00,010	31,318,017	0.11.10	50.00	10121210	10.03	** *	
1869-70	::	::	:	65,59,34,250	15,217,617	3,01,50,310	1,720,263	5	41,245,033	. 414	T A+
1870-71	:	::	: :	67,96,80,420	20,012,017	002,08,08,0	1,551,015	02.00.15	44 103 500	South the	
1879-73	::	::	: :	66,45,83,690	39,012,617	2.89,50,060	1,567,121	1,10,120		100000	
1873-74	:	:	;	00,111,1-100	600 800 60	2 62 25 296	2,163,361	0.200.000	10000	S. C. S.	
1874-75	:	:	:	09,84,00,500	13,000,000	3,13,20,150	100000000000000000000000000000000000000	07.70	15,0000		
1875-76	:	:	:	71.02.31.200	53,307,033	3,10,03,710	101111111111111111111111111111111111111	+30113310	4.000		
877-78	• •	::	: :	74,05,45,200	50,677,033	27. 27. 20.00	5241,552	- C. O . C. O . C.	10 674 64		٠,
1878-70	;	:	:	79,83,80,260	AS 855 556	3,41,76,569	1,037,500 E		ないない。		
1870-30	;	:	:	85,05,07,460	71,420,133	3,55,02,700	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100000	57 C C C C C C C C C C C C C C C C C C C		
881-kg	::	: :	: -:	88,05,31,020	69,131,047	3,66,13,190,1	工作品	110120011	4	に対き川	,
883-83	:	:	;	00,68,87,660	69,109,537	3,31,01,140	7,001,207	+230000+		٠,	٠,
#0-500)	:	:	:			gas pased from Translation of Africans, come or April					

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	Proportion of the registered rupes dibt held in	31st Narch.	Re	20,71,23,580	20,81,89,870	21,59,40,490	26,73,12,050	95,03,03,610	24,16,55,410	25,05,05,05,05	24,03,66,620	000 40 60	11.11.12.330	22,13,12,135	100 100 100 00	500 CO CO CO	16,21,55,231	16, 13, 32, 535	16,49,16,838	14, 13, 40, 473					8,82,81,630	_
	wed and paid year ; paid off—)	la England.	ᡤ	1,535,531	0.008	181,831,81		570.007-			1,020,199		11.10.00.0+ 11.00.00.0+	49,290,073	12:1:1	0.5,015	158,650	+13,570,213	+1,001,103	1,100,11					050.810.1	
contul.).	Amount borrowed and paid off cach year (Borrowed +; paid off)	In Indla.	RA.	047,00,71	15,43,82,260	12.74,03,04,4	1, 10,200	10,10,300	+2,00,95,260	088,837,11	+5,37,61,250		+2.54,05,810	710 CT 18 CT	+80.01.770	100,000,00	+ 47 35 000	+4,73,02,033	+1.37,10.037	1 2 65 550	185	+1.27,71,050	120000	000,10,18.1	000000000	1 1 1 1
enting Dept.	yable.		24	7,091,528 2,833,068	2,918,010	3,530,174	3,521,376	0,602,310	3,697,960	4,495,323	2,813,203		3,040,778	100,000	123,821	4.013,533	0.000	4,715,233	3,743,109	5,053,632	5,530,738	5,60%,417	0,140,000	6.60.010	5,649,894 5,679,894	
Assourt of the ROPEE and Stenling Debr-(conul.).	Interest payable.		. 6	3,84,18,550	3,82,02,570	1,13,73,120	0,000,12,4	4,17,15,000	1,12,77,760	3,01.09,140	3,04,00,710		3,87,11,060	3,00,50,317	4 03.60,015	4,09,37,801	500,000,000	1,38,10,365	1,53,38,037	4,61,66,110	1,03,13,19	4,91,21,302	1,87,70,138	5,07,80,510	5,15,13,13,514 7,15,90,00	· maintain .
AMOUNT Of th	Bogistered debt in		60,271,088 73,806,621	81,228,177	010,033,010	105,102,391	101,104,143	106,683,767	116,005,826	115,903,732	202000000	123,274,680	123,134,101	134,307,090	133,706.261	133,015,844	110,457,439	117,518,034	150,181,071	170,103,911	177,098,335	178,486,597	177,061,757	176,190,358	hande start	
,	Registered		118,36,600 93,18,36,600 9° 70,30,820	95,05,36,260	1,00,37,07,420	1,02,76,11,750	1,02,69,23,170	1,02,93.75,520	1,04,04,00,730	1,03,78,80,280	Occiocittion'T	1,11,69,58,340	1,12,47,47,010	1,10,37,10,036	1,17,55,10,600	1,19,12,43,035	1,26,03,10,419	1,30,45,50,035	1,32,80,01,953	1,36,81,33,105	1,38,09,72,155	1,30,06,34,203	1,46,08,55,700	1,50,52,65,20	and and a fort	
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			,	:	: : : :	::					: : : :			::	:	: : : :	:	::		::		::	:	: : : :	:	:
				1884-85	1880-86 1980-87	1887-88	1880-00	1800-01	1802-03	1803-04	1805-06	1800-07	1807-08	1800-1000	1900-01	1902-03	1003-04	1905-001	1906-07	1907-08	1908-00	1910-11	1011-12	1012-14	1014-15	24-2724

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ENGLAND.
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DEBT
NDIAN

				ndian	Deb!	in I:	nglane							2	13
of India,	Implint of D.b.	outstinding on 314t March 1917.	A	102'622'00	941°C05°534	11,56,5957	6,0'6,0'1	1,455,650	11 3 C C C	423,659	63,105,2	174,123,647	25.8 27.7.8	13,034	121.1.21
ble on the Revenues	Amount of Debt	or decharged further the further the Hate-year ended use March	ુ	120,629	10,621	• • •	5,00,000 3,500,000		7 6 0 0 0 0	:	:	1,224,050			080'100')
INDIAN DEBT IN ENGLAND. The RETERACT OF Indian Control on the Reterance of Indian. The Research of Children of C	neement of the Haif-year ended on the area	Date of Termination of Loan.	A STATE OF THE PARTY OF THE PAR	Not redeemable until 5th January 1931, but on or after that day, upon one year's pre- vious notice having been fiften by the Se- vious notice having been fiften by the Se-	TOTALY 11 SAME 191 MAIL AND TOTAL TOTAL AND TOTAL VALUE CONTRACTOR OF THE AND	Softwary of State of the State	or State for inflation to truncal One-state rate of Elyothodo redeemable at Dar on the 12th October in each of the eight years from 1011 to 1018 bothingulary, the bonds to be requed in each year belief de	termined by ot and fall on	• • • • • • • • • • • • • • • • • • • •	0 0 0 0 0 0 0 0	•		Total Debt in England bearing Interest.	1883 Englind not be	4 per cent. Stock 2,852,832 Total Dobt in England (1924
IND	nilling at the Commo	Total Amount of Interest payable thereon during the	31st March 1017.	1,580,021	020,720	110,125	20,230		200,50	0,073	9,562	51,029		•	2,852,832
	BETURN of all LOABSTAISE	DESCRIPTION OF LOAM,		LOANS BRARING INTEREST. India 34 per cent. Stock	India 3 per cent. Stock	India 24 per cent. Stock	fadla Bonds ••		East Inden Ralemy Debenture	Eastern Bracal Rallway Debenture	South Indian Rallway Debenture	Great Indian Peninsula Rallway Debenture Stock 4 per cent.	LOANS NOT BEARING		dla 4 per cent. Mock

THE RUPEE DEBT.

Return of the Interest Bearing Rupeo Debt of the Government of India as at the commencement of the half-year ended on the Soth September 1916.
In Thousands of Rupece.

	in Indusa	age of Rubces.		
Particulars.	Date of Issue.	Conditions of Repayment.	Amount	Total.
Railway Loans— Maharaja Rolkar 41 p. c. Maharaja Scindia 4 p. c. Nawab of Rampur 4 p. c. Special Loans— Gwallor, 4 p. c. 1887 Four p. c. Terminable Loan, (1915—16)	(1870–77) (1892–93) 1st Dec. 1915	After 101 years Perpetual After one year's notice to be given on or after 1st Dec. 1017. By annual instalments of 12 lakin. On or before 20th November 1923, but not	1,00,00 1,50,00 47,00 1,22,00 4,99,86	2,97,60
Conversion Loan, 1916-17	1st Oct. 1916.	preceding 30th November 1920, with three months' previous notice. On or before 1st October 1936, but not preceding 1st October 1931, with three months' previous notice.	.a¥6,72,93	11,72,81
Three and Half per cent. 1842-43 1853-55 Do. coupon 1865 Reduced, 1870 1900-1 Three per cent.	1st Feb. 1843 30th June 1854 1st May 1865 10th Jan. 1870 30th June 1990		22,40,03 01,28,62 08,01,57 3,87,30 30,90,88	: :
1808-97	22nd July 1896	Total	7,74,70	1,46,26,2 1,62,18,11

(a) Inclusive of Rupees 32,49 representing Loan raised through Post Offices.

DISTRIBUTION OF RUPEE DEBT.

		Calcutta.	Inland.	Madras	Bombay.	Total India.
Raiiway Loans Special Loan 4 per cent, 3½ per cent, 3 per cent,	••	43441 601831 47095	29700 12200 20189 271055 11354	13262 83536 7370	31451 345934 8709	29700 12200 114376 1892726 7453
		692370	350798	101188	386204	1533560
		Propor India I Indians.	tion in held by Europeans,	Held in London.	Unissued.	Total as above,
Railway Loans Special Loan 4 per cent. 31 per cent. 3 per cent.	0an 12200 L 35825 at. 73:089		79051 505644 48579	82416 2929		20700 12200 114370 1885142 77487
		845286	089274 :	85345		1618905

STERLING DEBT.

	Cal	ital of Del	ot.			isl Interesponde.	: nt
Debt Bearing Interest.	31st March 1916.	31st March 1916.	31st March 1917.	IInte	Slat March 1915.	Jist March 1910,	March 1017.
India 31 per cent. Stock India 3 per cent. Stock India 23 per cent. Stock India Bills India Bills Last India Railway Debenture Stock.	2000000 7000000 1435050 348000 425000 2701450 407500	1405050 348000 425000 2701450	116800 196 11680087 1000000 11435656 42600 270146	5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		1077550 202250 61001 13946 10125 108058	\$ 318452 1070754 202256 52500 6160 13044 1012 10805
Debt not bearing Interest— India 5 per cent. Stock India 4 per cent. Stock	1 2076						
Total Debt and Annual Interest thereon on 31st March 1917	10584			-	5682808	5605340	671175

INDIAN RAILWAY ANNUITIES.

	31st March 1915.	31st March 1910.
East Indian Railway— Annuity terminating in 1953 Interest in lieu of deforred annuity Eastern Bengal Railway Annuity terminating in 1957 Sind, Punjab & Delhi Railway Annuity terminating in 1958. G. I. P. Railway Annuity terminating in 1948 Madras and Southern Mahratta Railway Annuity terminating in 1956.	£ 840107 202000 110931 371214 1208471 488381	840180 202000 116831 371214 1208470 488381
_ Total	335 00 04	8856083

THE INDIAN MINTS.

The following statement shows the details of the silver coinage executed for the Government of India in the two mints during 1016-17:—

					CALCUTTA.	BOMBAY,	TOTAL.
					Value in Rs.	Value in Its.	Value in Rs.
Rupces Half-Hupces Quarter-Rupces Lighth-Rupces		••	::		15,65,00,000 09,022 32,01,581 24,73,342	11,21,00,266 29,40,115	20,80,00,200 - 30,30,137 32,91,581 21,73,342
			Total		10,23,00,015	14,53,40,381	30,77,07,326
	To	(al for	1915-16	<u></u>	1,01,02,111	58,00,058	1,62,62,100

Only a small fraction of the above figures represents recolnage of withdrawn and uncurrent. coins, the total receipts at both mints on account of such coins amounting to its. 1,38,51,587 only. The bulk of the coinage was from bar and sycee silver, and from silver coins of various foreign countries.

The following table gives the details of the silver coinage executed at the Bombay Mint on pehalf of Foreign Governments :--

Denom	Inatio	of the	coins.	Number of pieces.	Value in Rupecs.	Government on whose the behalf the collage was executed.
20 plastres 10 " 5 " 20 cents 10 "	***	••	••	 1,836,257 4,674,378 9,354,863 2,504 614 645,232 1,200,014	40,07,148 51,00,207 51,03,395 5,46,505 1,06,648 1,82,839	Egyptian Government. Straits Government.

Colunge of subsidiary coins for the Ceylon Government consisting of 50, 25 and 10 cent pieces was commenced at the Calcutta Mint in March 1917, but was not completed during the

The nickel coinage for the British India Government, which as usual was confined to the Bombay Mint, consisted of 39,037,037 anna plece of the nominal value of Rs. 24,42,043 against 7,670,248 pieces of the nominal value of Rs. 4,79,390 coined in the previous year. Cupro-nickel coins of the denominations of 10, 5, 2 and 1 milliemes numbering 11,702,143 pleces in all were also struck on behalf of the Egyptian Government.

The bronze eninage which is carried out entirely at the Calcutta Mint consisted of pice, halfpice and pie-pieces of the aggregate value of Rs. 2,65,900 compared with Rs. 1,83,000 in 1915-16. In addition, 8,364,000 pieces of bronze pennies and half-pennies for the Australlan Commonwealth, 4,000,000 pleces of bronze half-milliemes for Egypt and copper 1 cents and I cents numbering 7,000,000 for the Straits Government were also coined during the year at the Calcutta Mint.

The RC: THE and Expenditure of the two Mints (including interest on capital outlay and

The Gold and Silver Assays made during the year numbered.

Calcutta. Bombay. Silver. Gold. Silver. Year. Gold. 4.122. 101 1-15 471 10.035 3 236

The Indian denominations with their British equivalents are:-

Pie = 1/12 penny. Pice (3 ples) 1 farthing.

Anna (12 pies) 1 penny.

Rupee (16 annas)

A lakh (lac) is 100,000 rupees and a crore is 100 lakhs.

The equivalents of the rupee in various currencies are approximately as follows:-

One rupee = 1.68 franc (France, Italy, Belgium, &c.).

= 1.36 mark (Germany).

= 1°6 krone (Austria-Hungary). 99

0°324 dollar (United States).

= 0.65 yen (Japan).

The denominations of currency notes in other pro forms charges smounted to Revenue, circulation are 5, 10, 9, 50, 100, 500, 1000, Rs. 3,55,924 and Expenditure, Rs. 10,45,878.

HISTORY OF THE COINAGE.

The Indian mints were closed to the un-, erore of rupes was coined and over 17 crores of The indian mais were closed to the uncorre of rupes was coined and over it crores of restricted coinage of silver for the public son rupees in the year ending the Sist March 1910, the 26th June 1893, and Act vill of 1893, passed including the rupees issued in connection with on that date, repealed Sections 10 to 2% of the the conversion of the currencles of Native Indian Coinage Act of 1877) which provided for States. From the profit accruing to Governithe counage at the mints for the public of gold ment on the coinage it was decided to constitute and silver coins of the Government of India. a separate fund called the Gold Reserve Fund After 1893 no Government rupees were coined until 1807, when, under arrangements roads with rary fluctuations of exchange. The whole the Native States of Bhopai and Kashmir, the currency of those States was replaced by Government rupees. The re-coinage of these currency of these three was no coinage of these rupees, but in the following year it seemed that supersonable was necessary, and it was begun in February 1900—the Government purchasing the filter required, and paying for it mainly with the gold accumulated in the Paper Currency one-half of the coinage profits should be paid theorye. In that and the following month a into the reserve, the remainder being used for and silver coins of the Government of India. a separate fund called the Gold Reserve Fund

capital expenditure on railways. The Gold Standard Exerce was called into action before the year 1907-08 was out. Exchange turned arment india, and in March 1908, the Government of India obered bills on the Secretary of Etate up to half a million sterling, while the Secretary of State sold £1,000,000 Consols in order to meet anch demands. During April to According to meet anch demands. During April to According to meet anch demands. During April to According to the film were sold for a total amount of £8,059,000. On a representation by the Government of India, the Secretary of State agreed to defer the application of coince profits to railway construction will thest riling assets of the Gold Standard Lesens manufed to £25,007,006. On the following the state of the was have upon to meet the demands for sterling remittances, and Government off r to will £1,000,000 of Bills weekly. The extent of these rates is known on pp. 191, 192.

Gold.

Eince 1870 there has been no coinage of double moliurs in India and the last coinage of tingic molium was in the year 1801-02.

Art XXII of 1800, passed on the 16th Reptember 1800, provided that gold coin (sovereign and half-supervisors) shall be a legal tender in payment or on account at the rate of fifteen rapes for one sovereign.

The weight and finences of the silver coins

diale.	FINE Silver grains,	ALLOY.	TOTAL grains.
Half-rupen Ouster-impen of 4-	165 921	15 71	180 90
Anna piece Digitional annoces	413	81	45
Trans place	20)	1 11	221

One rupee = 165 grains of fine silver.
One shilling= 80.1 grains of fine silver.
One rupee = shillings 2.0429.

· Copper and Bronze.

Copper colnage was introduced into the Rennal Previdency by Act XVII of 1835, and into the Madras and Bombay Presidencies by Act XXII of 1844.

The weight of the copper coins struck under Act XXIII of 1870 remained the same as it was in 1835. It was as follows:—

			Grains troy.
	Nouble pice, or half-anga		200
l	Pice or quarter-anna		100
١	Half-pire or one-eighth of an and Pie. being one-third of a pice a	n	50
١	l tie, being one-third of a pice a	or one	•

twelth of an anna 881.
The welcht and dimensions of bronze coins are as follows:—

		Standard weight in grains troy.	Olamoter in milli- metrea.
Pice	••	 75	25.4
Hall-pice		 371	21.15
Ple	4.6	 25	17:45
}		 ff-t-st	*

Nickel.

The Act of 1906 also provides for the coinage of a nickel coin. It was directed that the nickel one-anna piece should thenceforth be coined at the Mint and Isvo. The notification also prescribed the design of the coin, which has a waved edge with tweive scollops, the greatest diameter of the coin being 21 millimetres, and its least diameter 19-8 millimetres. The desirability of lessing a half anna nickel coin was considered by the Government of India in 1909, but after consultation with Local Government it was decided not to take action in this direction until the people had become thoroughly familiar with the present one-anna coin.

The Paper Currency.

Under Acts VI of 1839, III of 1840, and LX of 7.53314 grains troy of 1843, the Presidency Banks of Bengal, Bombay, notes can also be I sued and Madras were authorised to lague notes bullion or silver builton or payable on demand, but the issue of the notes by the Secretary of State for was practically limited to the three cities of Calcutta, Bombay, and Madno. These Acts were repealed, on the 1st March 1862, by Act XIX of 1861, providing for the Issue of a paper currency through a Government Department, by means of notes of the Government of India payable to bearer on demand. Since then no banks have been allowed to issue notes in India.

Act II of 1910 amended and consolidated the law on the subject. By it, a note of the value of five, ten, or fifty rupers, as well as a note of any other denominational value which the Governor General in Council may, by notification in the Gazette of India, so specify, was declared to be a "universal currency note," that is, legal tender throughout British India and encashable at any office of issue in British India; the then existing sub-circles of Camppore, Lahore, Karachi, and Callent were abolished, and the first three of these constituted separate circles of lacue in addition to Calcutta, Madrae, Bombay, and Rangoon. At the same time, by a notification issued under the Act, the further issue of 20-rupce notes was discontinued. By another notification i-sued in 1911 under section 2 of the same Act a currency note of the denominational value of one hundred rupers was declared to be a "universal currency note."

Department of Paper Currency.

The function of this department is to large, without any limits, promissory notes (called currency notes) of the Government of India payable to the bearer on demand, of the denominations of Rs. 5, 10, 50, 100, 500, 1,000, and 10,000, the i-suc being inade in exchange for rupees or half rupees or for gold coin, which is legal tender, from any Paper Currency office or agency, and for gold bullion and gold coin, which is not legal tender, from circle offices on the requisition of the Comptroller General.

Supply and Issue of Currency Notes.

Currency notes are supplied by the Secretary of State through the Bank of England on an indent from the Head Commissioner. The Head Commissioner or Commissioners supply Currency Agents with all the notes required for the purposes of the Paper Currency Act. Every such note, other than a "universal" note, bears upon it the name of the place from which it is Issued and every note is impressed with the signature of the Head Commissioner or of a Commissioner or Deputy Commissioner.

The officers in charge of the circles of issue are authorised to issue, from the office or offices established in their circles, currency notes in exchange for the amount thereof (1) in rupees or half-rupees or in gold coin which is legal tender under the Indian Coinage Act; or in rupees, made under the Native Coinage Act, IX of 1876,

bullion or silver bullion or 1186

Notes when legal

Every note is a legal tender (execpt by Government at the the amount expressed in that my, whenever a note forms th B portion of any payment, either to on account of a revenue or other chi'z body corporate or person in Briti-177's legal tender. Five, ten, fifty and hith notes are legal tender throughout I: Notes of higher denominations that fifty and hundred rupees are payable i office or offices of issue of the town for they have been found. In ordinary circu every Government treasury, of which about 250 in British India, eashes or condess it it can do so without incom-and when this cannot be done convenilarge som, small sums can generally changed for travellers.

· Reserve.

The whole amount of currency notes in lation is secured by a reserve of gold and coin or bullion and securities of the Govern. of India or of the United Kingdom. The amount of such securities is limited to millions of rupees, of which not more that millions of rupees may be in sterling secur. Under the Act of 1882 the maximum limit of eccurities was fixed at sixty millions of rup but, the issues having largely expanded, Government of India was empowered by XV of 1800 to rake the limit to eighty milling The power was utilized to raise the invereserve to seventy millions on the 19th Dec ber 1890, and to eighty millions a year later, the 3rd December 1891. By notification 5366 of the 18th December 1896, the invercescree was raised to one hundred million. power to do so having been given by Act 2 of 1806. Act III of 1905 raised the limit to of 1806. Act III of 1900 raised the act 20 milli millions and in August of that year 20 milli of the reserve were invested by the Secretary confidence bonds. In State in consols and exchequer bonds. 1903-09 the exchequer bonds were replaced by Consols. By Act VII of 1911 the limit was a raised farther to 140 millions, and in April of that year 20 millions were invested by the Secretary of State in Consols.

War Measures.

The permanent policy in regard to the inves-The permanent policy in regard to the invested portion of the Paper Currency Reserve has been left for future consideration, the war having followed too closely upon the report of the Currency Commission to warrant definite steps being taken now. Meantime steps have been taken to increase the maximum investments. As the result of difficulties which arose in 1014-15 in consection with the diameting of in 1914-15 in connection with the financing of and (2) on the requisition of the Comptroller the cotton crop, Government had to arrange to General, to all treasuries, in gold coin which is provide themselves with funds to support trade not legal tender under the Coinage Act or gold in general through the Presidency Banks. bullion at the rate of one Government rupes for Power was taken at the beginning of 1915 to increase the permissible investments in India on behalf of the Paper Currency Reserve by £4 millions. During the latter part of the official year 1015-10 there was a brisk demand for Council Bills, which could not be met from the treasury balances, owing to the large disbursements made in India on behalf of the Home Government. It therefore became desirable that Government should have the power of making this additional investment of £4 millions in London and they took the necessary power by Ordinance in January 1910. Towards the close of the year this Ordinance was replaced by a temporary Act (IX of 1916) which also authorised Government to make a yet further increase of £4 millions in the investment. Against the total power of £8 millions thus obtained investments of £4 millions were actually made in the financial year, being all in the form of Preasury Bills.

The composition of the Currency Reserve held against the note circulation at the close of March 1017 was Currency Extre Rs. 37,88,32,594 and Securities Rs. 48,49,00,000.

Larger Investments.

If has already been explained that by Act IX of 1016 the Government of India took power to issue currency notes up to a maximum amount of six crores against British Treasury Bills of an equivalent value held by the Secretary of State. The reason for this was that when the Secretary of State in order to meet a strong trade demand for Council Bills gells bills in excess of his own requirements or the convenience of the Government of India, he can in normal conditions fall back upon the alternative of selling his bills against the Paper Currency Reserve, instead of against the Government of India's treasury balances. The payments made to lim for the bils in London are then credited to the Paper Currency Reserve there in gold and the bills are paid from the flunds held on account of this reserve in India. This process involves the car-marking of such gold and in the financial situation created by the war the course was undesimble. For this reason it was decided to take a power to invest such funds in British treasury bills.

By a notification issued on November 13 the Government of India took power to increase such investments by an additional 12 croses of rupees; and on December 1914 a further Rs. 12 crores. It was pointed out that in spite of the assistance rendered by the heavy coinage of rupees undertaken in 1916 the Government of India were undertaking on behalf of the Home Government such heavy expenditure in this country that their balances would not be adequate to meet the trade demands for Council Bills. These additional powers were therefore taken in the lope that together with the assistance which might be anticipated from treasury balances later on in the year they will suffice to cover the sales of Council Bills during the remainder of the busy season. A promise was however given that in the event of this measure proving inadequate the Government would take such other steps which might be necessary for the purpose of enabling trade to bring out to India the funds required for trade purposes (2, r. India and the War-Hance).

Currency Chest.

Under the Gold Note Acts of 1898 and 1000, the Government of India had obtained authority to hold a part of the metallic portion of the reserve in gold coin (or temporarily in silver bullion) in London instead of in India. The object of these enactments was merely to afford temporary relief to the Indian money market in seasons of stress. A certain amount of gold had in this way been held in London during 1890 and 1900, but not to any large extent, and the occasion for doing so ceased, except in regard to gold in transit, from the middle of 1900. Act II of 1910, however, gives fall power to hold the metallic portion of the reserve or any part of it, either in London or in India or partly in both places, and also in gold coin or bullion or in rupces or silver bullion, at the free discretion of Government subject only to the exception that rupees should be kept only in India and not in London. A currency chest was accordingly opened in London and a sum of £6,000,000 was remitted from India in pursuance of this policy, and a further sum of £1,045,000 was transferred to the chest from the Secretary of State's rainness during the course of 1005-00. On the 31st March 1917 the London currency chest held £ 4,445,666 on behalf of the Currency Reserve.

Metallic Reserve.

The metallic reserve may consist of sovereigns; half sovereigns, rupces, and half rupces; and gold and silver bullion, the last named being valued at the sum spent on the purchase of such bullion. No gold was contained in the reserve between March 1876 and February 1893, and the quantity increased very slowly until February 1899, but from that date it rose rapidly till the end of March 1900 when it amounted to £7,500,012. Government then took measures to reduce what was considered to be an inconveniently large gold reserve, and at the end of March 1901 the value of the gold reserve had fallen to £5,778,518. In the next three years it again increased continuously from £7,023,021 at the end of 1001-02 to £9,850,564 at the end of 1002-03 and £10,789,567 at the end of 1003-04. During the next three years it remained practically steady, the amount held on the 31st March 1007 being £10,638,841. In 1007-03 the serious monetary crisis in America and the contraction in the exports from Indla owing to the famine led to a very large increase in the demand for gold at the Carrency offices with the result that on the 31st March 1003 the value of the gold reserve had failen to £6,417,841 inclusive of £3,705,000 held in England. Adverse trade conditions continued in 1908-09 and on the 51st March 1900 the gold reserve had dwindled down to £1,523,414, of which £1,500,000 was held in England. Normal conditions returned in 1900-10 and the stock of gold in the reserve roce to £3,701,716, on 31st March 1910.

they will suffice to cover the sales of Connell Bills during the remainder of the busy season. A promise was however given that in the event of this measure proving inadequate the Government would take such other steps which might be necessary for the jumpose of enabling trade to bring out to India the funds required for trade purposes (7, r. India and the War-Finance).

Tota

Effect of the War.

It was the could be could be difficult of the war found a 'n strong position that it was count to meeting with ease all the demands upon it. The second year of the war reinforced this contention. After the first shock of crisis credit and confidence rapidly returned. Although trade was hampered by various restrictions it showed great clasticity in adapting itself to the abnormal conditions provaling. This is nowhere more marked than in the increase in the note circulation. During the year 1914-15 the active circulation, which had been steadily developing, showed a setback. This was due as much to the slackness of trade and to the falling off in the demand for currency as to any decline of confidence in the note issue. Indeed some improvement in the active circulation was noticed towards the close of the year when this circulation stood at Rs. 44 crores. This movement continued throughout 1015-16, and was specially marked during 1916-17. The note issue consequently soon assumed unprecedented proportions and stood at Rs. 86 crores at the end of March 1917.

Of recent years steps have been taken to increase the popularity of the Note issue. The first important measure was the univer all-sation of Notes up to Rs. 100, instead of confining the facilities for encashment to the circle of issue. In 1914-15 two other important steps were taken. It was decided not to re-issue Notes, and so to eliminate the worm and fifthy paper that was sometimes found in is entered in a separate account, and paid to the riscalation. Orders were also passed that credit of the Government of india, under the hear Government Treasuries should freely excharge Notes for coins and rice rerea up to the limit of their power. The introduction of an improved form of Note is under consideration. The Presidency has keen also made airming means for the free issue and encomment of universal notes, at many of their important branches at which Government Treasury business is conducted One raige notes were issued in Theorems 1817. At the close of the business is determined in December 1917. At the close of the linaucial year, that is to say, March 31st, 1917, the actual state of the Paper Currency was as

OTTOM2 :				
			81:	st March
				1917.
				Rs.
				Lakhs.
				Rs.
Total Circulation	4.0			86,37
Silver coin in India				17,08
Cold Coin and buill				12,00
Silver bullion under				2,00
Gold coin and bulli				6,67
Silver bullion in Er	igland			13
Securities held in I	ndia			10,20
Sterling securities			• •	26,61,439
Total Reserve		• •		80,37

It was the policy of the Government of India to give gold from the Paper Currency Reserve irrely on demand. But when the war broke out, it became apparent that gold was being withdrawn from the lieserve not to meet legitimate demands, but to speculate: zovereigns were at a premium in the bazaar, and those who

commanded funds took sovereigns from the Paper Currency Reserve and sold them at a profit. Government accordingly declined to Issue sovereigns in sums smaller than ten thousand pounds at a time, but as the speculators then clubbed together and formed syndicates to withdraw sovereigns an absolute cubargo was placed on the issue of gold. The effect of these withdrawals, of the abolition of the Silver Branch of the Gold Standard Reserve, and of the transfer of gold from the Paper Currency Reserve to the Gold Standard Reserve in payment of Reverse Connells is seen in the last official statement showing the composition of the Paper Currency Reserve :--

	7th of December 1917.
	R5.
l Circulation	 1,11,92,08,300

Silver Coin in India 22,34,67,597 25,27,51,730 Gold Coln and Builion in India. Silver billion under Coinage 53,31,157 Gold Coin and Builion in England . 1,42,50,000 Good Coin and Bullop in His Majesty's Dominions ... 35,83,950 Gold Coln and Bullion in Tran-It ... 52,77,000 . . Securities held to India ... 0,00,00,940 . .

.. 1,11,92,08,300

51,47,04,60

Interest.

" Profits of note circulation."

Securities held in England

Total Reserve

The interest on the invested reserve amounte in 1016-17 to Rs. 04,57,000, the expenditur of the Departm at being Rs. 25,44,082 and the profit Rs. 70,70,574.

Circulation.

The value of currency notes in circulation throughout India in 1916-17 and previou Years :-

1897-98 to	1901-02			27,34,93,80
1902-03 to	1906-07			39,20,11,78
1907-08 to	1911-19	• •		
101:-13		••	• •	50,64,18,66
1913-14	* *	9.6		65,62,08.01
	* *	* *		65,55,07,2
1914-15	* *			64,64,01 71
1015-16	• •	• •		64,09,50,3
1016-17				70,14,16,5
				, , , ,

The gross circulation of each denomination

f note on	March	31st 1	017 W	13 as f	ollows :-
					1917.
					Rs.
5-1	rupco	• •	••		6,624,2
10	22		• •	• •	22,593,0
20	31	• •	• •		21,0
50	23	• •			504,1
100	23		• •		2,532,1
500	**		• •		48,9
1,000	99		••	• •	112,4
10,000	. 21		• •		18,8
Total p	eces			• •	32,460,5
Value 7		• •	• •	••	86,37,51,7

(1) Cash placed by the Secretary of State for India in Connell 6,000,521 at short notice (2) British and Colonial Government securities (value as 21,965,053 | on 80th September 1917) (3) British Government gecuritiessince purchased 5,657,069

Total

Causes of the changes.

The increase in the Reserve is explained by a fluancial communique which was pub-lished in September 1916. In order to meet the conditions set up by the outbreak of the war, Government in 1914 entered into substantial borrowing. It issued £7 millions of sterling Bills in London and it took a loan of £8 millions from the Gold Standard Reserve in Iudia. As matters improved, these temporary commitments were reduced. Of the total loan from the Gold Standard Reserve £4 millions were repaid, and provision was made for the discharge of £1½ inillions of the sterling Eills in London. Under the lean programme for 1916-17 the Government of India required to of rights of holders of 3 per cent, and 33 per cent. The profits on this, according to practic Government Paper in India, they offered to devoted to the Gold Standard Reserve.

The balance of the Gold Standard Reserve receive Rs. 12 crores, carrying an equivalent the 30th November 1017, in India and in conversion right, and if this had been taken up England, amounted to £33,623,212 and was the proceeds would have been used to discharge the balance of the loan from the Gold Standard Posterior Reserved. Reserve. But owing to the competition of British Exchequer Bills, a little less than Rs. 7 erores was subscribed to the Conversion Loan in India, Consequently there were not avail-able the funds with which to discharge the balance of the loan to the Gold Standard Re-serve. The course of the exchanges however rendered this a matter of no urgency. The Reserve is primarily intended to maintain the sterling value of the rupce, by providing a gold reservoir from which to meet any demand for sterling exchange in the event of the balance of trade turning against India. Owing to the heavy expenditure on behalf of the Home Government in India, the magnitude of the demand for Indian produce, and the falling off in the exports from Great Britain to India in consequence of the reduction of production and the scarcity of Ireight, the balance of trade has been leavily in favour of India; the problem there-fore has been to finance the rupee exchanges and not to prepare for a further demand for sterling exchange. In order to lighten the pressure on the London Money Market, the Government decided to discharge the whole of their floating debt in England. To do this they took a further loan from the Gold Standard Exchange of £4 millions, raising their borrowings again to £8 millions. The actual additions In London. Under the loan programme for to the volume of the Reserve arcse from the 1916-17 the Government of India required to fact that the demand for currency, consequent borrow Is. 0 crores for their current requirements in India. In order to provide what in part of the disappearance of gold as a circuments in India. In order to provide what intig medium oning to the appreciation of the practically amounted to unlimited conversion of rights of holders of 3 per cent. and 33 per cent.

The volume of the Reserve arcse from the section of the conversion of the disappearance of gold as a circumture of the disappearance of appreciation of the provided that the field Standard Reserve arcse from the 1916-1916 that the conversion of the Reserve arcse from the 1916-1916 that the demand for currency, consequent in part of the disappearance of policy as a circumture of the disappearance of appreciation of the provided what is a circumture of the disappearance of appreciation of the provided what is a circumture of the disappearance of the disappearanc

Sterling Bills.—The following table shows the details of the weekly allotments since the reverse remittances were first offered :-

	Date	e.			Offered.	Tendered.	Allotted.
Lugust	0,1914 .				<u>s</u>	2	.£
- 1	3. 1914 .	• •	• •	. * •	1,000,000	1,001,000	1,000,000
" .	20, 1914	• •	• •	• •	1,000,000	813,000	813,000
	27, 1014	* *	• •		1,000,000	632,000	632,000
lamá amala am	3, 1914	* *	* *	* * 1	1,000,000	538,000	539,000
sebtemner	3, 1914	* *		**1	1,000,000	474,000	474,000
	10, 1014	• •	• •		1,000,000	360,000	360,000
	17, 1014				1,000,000	335,000	335,000
	24,1914				1,000,000	346,000	346,000
October	1, 1914				1,000,000	355,000	355,000
	8, 1014				1,000,000	345,000	315,000
	15, 1914				1,000,000	601,000	601,000
	22, 1914				1,000,000	427,000	427,000
. ,,	20,1914				1,000,000	177,000	177,000
November	5, 1914				1,000,000		177,000
	12, 1914				1,000,000	94,000	01,000
	19, 1914				1,000,000	390,000	300,000
"	26, 1014		• •		1,000,000	560,000	560 000
December					1,000,000	255,000	
11	10, 1014	•••			1,000,000		255,000
29	17, 1914		•••	- 1	1,000,000	371,000	371,000
,,	23, 1914	• • • • • • • • • • • • • • • • • • • •			1,000,000	404,000	404,000
"	30, 1914		• •		1,000,000	170,000	170,000
• • • • • • • • • • • • • • • • • • • •	,	• •		• •	1,000,000	50,000	50,000

Sterling Bills.—The following table shows the details of the weekly allotments since the reverse remittances were first offered—continuet.

	Da	te.			Offered.	Tendered.	Allotted.	
			•		£	£	£	
January "	7, 1915	••	••	••	1,000,000 1,000,000	100,000 75,000	100,000 75,000	
**	21, 1915 29, 1916	••	••	••	1,000,000 1,000,000	00,000	50,000	
Februar:	7 4, 1916 11,•1916	••	••	••	1,000,000 1,000,000		****	
**	18, 1915 25, 1915	• •	••	••	1,000,000 1,000,000		****	
March	4, 1915 - 11, 1915	••	••	. ••	1,000,000 1,000,000	4 4 4 4	••••	
**	18, 1916 25, 1915	••	••	••	1,000,000 1,000,000	****	****	
April	1, 1915 8, 1915	••	••	::	1,000,000 1,000,000	::::	****	
"	22, 1015 29, 1915	••	**	::	1,000,000 1,000,000	****	****	
May "	. 6, 1915 13, 1915	••	••	::	1,000,000 1,000,000	::::	****	
"	20, 1915 27, 1915	••	••	::	1,000,000 1,000,000	****	****	
June "	2, 1915 10,1915	••	••	::	1,000,000 1,000,000	100,000 200,000	100,000 208,000	
# #	17,1916 24,1015	••	**	-:	1,000,000 1,000,000	190,000 155,000	190,000 155,000	
July "	2, 1915 . 0, 1915	••	**	::	1,000,000 1,000,000	1,075,000 1,075,000	1,000,000 1,000,000	
11	16, 1915	4+	• •		1,000,000	624,000	524,000	
**	23, 1916	••	• •		1,000,000	850,000	850,000	
n	80, 1015	••	• •		1,000,000	843,000	843,000	
Lugust	. 6, 1015	••	**		1,000,000	455,000	455,000	
**	12, 1915	••	. ••.		1,000,000	. 845,000	345,000	
93	20, 1915	**	4.0		1,000,000	15,000	15,000	
eptembe	er 3, 1915	••	••		1,000,000		****	
ss .	13, 1915	••	••		1,000,000	20,000	50,000	
**	24, 1015	••	••		1,000,000		****	
October	1, 1915	••	•••		1,000,000	····	****	
	7, 1915	• •	••		1,000,000		****	

GROSE REVENUE IN INDIA AND ENGLAND; IN S. (16 RUPLES=51).

224			1	in	ano	cial	Statistics.
1916-17 (Revined Esti- mate).	23,005,500 3,125,000 4,725,100 9,125,000 9,125,500 8,005,100 9,708,100 9,101,000 9,101,000	00,034,300	1,110,100	002 921 1 (0)		00),120	115,000 133,500 133,500 110,700 110,700 110,100 (0) 175,500 1,001,100 1,001,100 110,700 110,700 110,700 110,700
1015-16.	20.00.00 1,001.01 1,001.01 1,001.01 1,101.00 1,101.00 1,101.00 1,101.00 1,001.00 1,001.00 1,001.00 1,001.00	52,860,375	1,000,117	827 757 5 (5)	001 000 (m)	101,018	413,545 123,100 123,100 123,000 0,000 0,132,700 1,579,00
1014-15.	21,221,530 1,572,18 2,082,0170 5,082,0170 8,856,881 9,347,2811 1,986,153 1,986,153 4,034,733 4,000,427	52,141,003	1,023,307	1 (0)	מייים מייים	601'09	3.701 401,568 9.419 406,531 0.300 11,281 7.505 266,250 0.388 84,769 84,769 84,769 1,505,120 1 1,505,120 1 1,506,120 1 1,506,12
1013-14.	21,301,676 1,115,305 1,115,305 6,318,203 180,210 7,5658,220 1,0 0,250 6,220,672 6,220,672 6,220,672 6,220,672 6,230 6,23	63,729,716	1,352,119	2,410,210	1,188,::09	339,841	### 61 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1012-13.	5,282,468 5,312,502 5,300,115 5,000,115 5,27,010 7,1072,13 1,712,307 1,712,307 1,712,307 2,123,009 2,123,009 2,123,009	55,838,830	1,473,708	2,262,436	1.17,121	487,350	352,051 270,062 113,523 163,524 111,804 111,804 200,386 90,078 100,278 371,964
1911-12.	20,764,607 5,001,278 3,391,212 4,151,29 7,009,753 6,168,567 1,052,878 1,052,878 1,052,878	51,205,210	1,418,741	2,134,270	1,087.425	367,100	20,000 112,733 161,733 161,733 161,733 111,185 11,233,131 105,607 105,607 105,607 105,607 105,607 105,607 105,607
1910-11.	20,877,521 7,521,002 7,721,003 4,811,001 7,030,314 6,019,000 1,503,301 1,503,301 1,503,301 1,503,301	55,016,085	1,165,439	1,000,022	001,150	190,110	210,003 237,701 155,373 116,537 116,537 113,432 07,034 70,034 70,034 70,034 70,034 70,034 70,034 70,034 70,034 70,034 70,034 70,034
16/09-10.	21.332,141 2,534,063 2,130,618 4,648,301 6,537,854 6,307,854 1,058,004 1,735,336 1,735,336 1,735,336 1,735,336 1,735,336	61,080,875	1,184,343	1,027,220	902,851	125,053	293,339 310,063 323,060 230,155,273 112,8060 1155,373 112,773 112,773 100,433 110,430 11,165 11,165 11,105,007 11,105,007 11,003
		:	:	:	:	:	o
HBADS OF REVRIUM.	Puncipal Reads of Revenue: Janul Roycuue Oplium Santh Stamps Fixels Fixels Custons Fixels Forest Forest Registration Registration Tributes from Native States	TOTAL	:	:		•	DEPARTMENTS: TOTAL TOTAL TOTAL Tilling TOTAL TOTAL TOTAL TOTAL
I	Principal Radio Jana Rovenae Oplum Santis Santis Santis Santis Excho Provincial Rades Custons Assessed Taxes Forcet Registration Tributes from N	-	Interest	Post Office	Telegraph	MINT	RECEIPTS BY CIVIL DEPAR LAW and Justice: Contro of Law Julis Follow Ports and Pilotage Education Education Medical Scientific and other Mine Stationery and Printing Exchange Exchange Miscellancous Exchange Miscellancous Exchange Miscellancous (a) Agriculture.

	-					Fin	lanci	al S	tati.	stic	cs.					
		1916-17 (Heyled)	t sumare)	11,681,500	20,793,300	03,200	20.031 000		1,755,000	303, 100		306,800	\$97,500	807	1,019,900 373,200 76,700	225
		1915-10.	S	20 900 704			17,977,103 20			267,363	4,770,070 4,0	30 1,035	810,434			.740 1,469,800 .537 96,834,500
		1211-13.	36.105.165		15,723,158	100'01	15,729,149 17			_	- 1	238,210 3	971,940 124,345 11:			000 84,413,537
	-(confd.)	1013-14.	37,516,135	200'610'05	!	93,101	17,625,631 15,	2,765,066		-11	1	010,cc-	1,030,031	- 1		85,207,175 81,157,000
	1010 10		30,680,361	19,391,729	17,294,635	73,174	171,780 17,	2,607,478		17	_1_	-	1,107,241 1,03	1	162 89,542 76,601	98 85,207,
	1011-10	!	33,570,120	17,715,010 18	15,834,030	Cloth	15,801,725 17,371,780	2,381,533		3,030,052 4,41	320,024	<u> </u> 	1,061,030 1,10		701 87,000 701 72,162 057 1,387,634	750 80,862,598
	1910-11.	- -	30,629,736	10,787,041	13,812,115 15		13,381,461 15,6	2,288,031 2,3 1,178,003 1,3		3,604,621 3,0	203,833 32		110,405	787 84,000	503 78,701 020 1,343,057	0,082,473 82,835,750
	1900-10,	9	28,023,031 30	10,530,801 10	12,387,130 13,	19 415 and			3,000 150	- 1	208,780			63,430 1,038,010 75,723 01,787	.961 1,221,020 405 80 608	20000
GROSS REVINUE				'- 2	::5			::	: :	_	<u></u>		::	97.	1,136,961	
юир	ULADS OF REVENUE.	RAILWAYS:	State Rallways (Gross Receipts) Deduct Working Expenses and Surables made	Companies, Liou	Arceoftes Guaranteed Companies (Net Traffe Receipts) Subsidized Companies (Government share of Supplus Profits and Ropsyment of Advances)	TOTAL	Innigation: Anjor Works; Direct Receipts	Fortion of Land Rovenue due to Irrigation Minor Works and Navigation	Total		HILTARY DEPARTMENT:		:	Military Works	TOTAL REVENUE	
		٠.													ы	

In any case there should be at least one member with Indian financial experience. The absence of any representative of Indian finance on the Committee since 1911 has resulted in giving undue prominence to the representation of London City experience.

- 30. While we suggest that the changes recently proposed and now under discussion in the constitution of the India Council may require tome modification in order to provide for the continuance of a Finance Committee of Council, we are in sympathy with the desire for expediting financial business, which is one of the objects in view.
- 40. The present arrangement under which the Assistant Under Secretary of State, having financial experience, is able to share with the Financial Secretary the responsibility for financial business in the India Office has many advantages. For the Inture we recommend that either (I), the Under Secretary or Assistant Under Secretary of State should have financial experience as at present, or (2) there should be two Assistant Under Secretaries, of whom one should have financial experience.
- 41. We are not in a position to report either for or against the establishment of a State or Central Bank, but we regard the subject as one which deserves early and careful consideration, and suggests the appointment of a small expert committee to examine the whole question in India, and either to pronounce against the proposal or to work out in full detail a concrete scheme capable of immediate adoption.

A Note of Dissent.—The report was signed by Sir James Begble subject to a note of dissent. In this he pointed out that the currency policy directed to the attainment of stability in the exchange value of the rupee by means of gold reserves collected from the profits realised on the coinage of rupees had brought into existence an extensive token currency, which wis not a desirable form of currency for a country which absorbs gold on a very large scale. Sir James Begble therefore held the view.

"That the true line of advance for the currency policy is to discourage an extension of the token currency by providing increased facilities for the distribution of gold when further increases in the currency become necessary. These greater facilities should, I consider, include the issue of gold coins from an Indian mint of a value more suitable for general currency use than the sovereign and half-sovereign, for the purpose of assisting the distribution of gold when, as is frequently the case, the balance of trade is strong in India's favour and gold arrives in considerable quanti-

ties. I also think that supplies of gold coins should be laid down in the up-country districts with the object of giving the general public effective opportunities of obtaining gold coins.

Action on the report as a whole lusbeen deferred until after the termination of the war-indeed it is doubting if any sort of general pronouncement will be made on the report, because of the great changes effected by the war-partial action has been taken in order to meet immediate necesities. Thus in 1914 the silver branch of the Gold Standard Reserve was abolished, the rupers held in that reserve being exenanged for an equivalent in gold taken from the Paper Currency Reserve. The Gold Standard Reserve-it is sometimes called the Gold Reserve Fund—now consists entinly of gold and gold securities. In 1914 a Notification was issued guaranteeing to issue sterling drafts on the Secretary of State in London—there are called for convenience Reverse Councils—at gold export point on demand. The extent of this demand will be found in the section dealing with the Paper Currency and the Gold Standard Reserve (see ante). Another important step was taken by the Secretary of State when he announced that he had exchanged the Consol holding in the Gold Standard Reserve for the new four and a half per cent. loan. The official communique said:—"the Secretary of State has converted the entire holdings of Consols in the Gold Standard Reserve amounting to £3,266,391 into stock of the new war loan to the value of £2,177,594. This has been done partly by the acquisition of conversion rights from the public and to a smaller extent by a direct tender for the new loan." In the autumn of 1914, when there seemed to be every likelihood of a complete break in the price of cotton unless special steps were taken to enable holders to carry the crop, the Government of India stiffened the money market by offering the Presidency Banks loans from the Paper Currency Reserve in order to a slat in the financing of threatened trades. This help was not needed, because cotton recovered its value with surprising celerity, and there has been a surplus, rather than a deficiency of money. The invested portion of the Paper Currency Reserve has been increased. The question of a State Bank is in abeyance. When the scheme was first mooted its reception was generally hostile. It was impossible to see how the interests of the three Presidency Banks and of the large Joint Stock and Exchange Banks could be reconciled with a great State institution. Since then there has been a certain revul-ion of feeling, though opinion is still nicely divided, and there are many who, whilst not hostile to a State Bank per se, are inclined to think that Government can be of more assistance in time of crisis by remaining outside banking and placing its resources at the disposal of the market through the Presidency Banks in time of pressure.

The Railways.

Not for come first after the establishment of the purpose, the metre gauge being adopted Not for come first after the establishment of the purpose, the metre gauge being adopted Rallmays in England was their construction in India contemplated, and then to test their important to be diverted to construction in India contemplated, and then to test their important to be diverted to construction the first contemplated, and then to test their important to be diverted to construction the first contemplated to the first and Panjab lines from metre mental lines acte sanctioned in 1845. There to broad-gauge for strategie reasons. Acre from Calcutta to Rankani (129 miles), the East Indian Railway; Bombay to Kniyan (21) miles. Great Indian Permania Railway; und Madras to Arkonam (23 miles), Madras Railway, Indian Railway building on a serious scale dates from Lord Dalbousie's great minute of 1853, wherein, after dwelling upon the great social, political and commercial advariages of connecting the chief cities by rail, he suggested a great reheme of trunk line linking the Presidencies with each other and type inland regions with the principal ports. This reasoning commended itself to the Di-rectors of the East India Company, and it was powerfully reinforced when, during the Mathay, the barriers imposed on free communiertion were severely felt. As there was no private capital in India available for railway construction, English Companies, the interest on whose capital was custanteed by the State, were formed for the purpose. By the end of 1859 contracts had been entered into with eight companies for the construction of 5,000 miles of line, involving a guaranteel capital of £52 millions. These companies were (1) The East Indian; (2) the Great Indian Pennand Control India; (4) the Rombay, Baroda and Control India; (5) the Eastern Beneal; (6) the Indian Branch, now the Oudh and Roblivand State Railway; (7) the Sind. Punjab and Delhi, now merged in the North Western State Italiany: (8) the Uteat South-ern of Inlia, now the South Indian Railway. The scheme laid the foundations of the Indian Rallway system as it exists to-day.

Early Disappointments.

The main principle in the formation of these companies was a Government guarantee on their capital, for this was the only condition on which lavestors would come forward. This guarantee was five per cent, coupled with the guarantee was use per cent, soupled with the free grant of all the land required; in return the companies were required to there the surplus profits with the Government, after the guaranteed interest had been met; the interest charges were calculated at 224 to the rupee; the Italiusys were to be rold to Government on fixed terms at the close of twenteen. ernment on fixed terms at the close of twentyfive years and the Government were to exercite close control over expenditure and work-ing. The early results were disappointing. Whilst the lialiways greatly increased the efficiency of the administration, the mobility of the troops, the trade of the country, and the movement of the population, they failed to make profits sufficient to meet the guaranteed interest. Some critics attributed this to the nnnecessatily high standard of construction adouted and to the engineers ignorance of local conditions: the result was that by 1869 the deficit on the Rallway budget was Rs. 1661 lakhs. Seeking for some more economical competition of 4 per cent. trustee stocks, method of construction; the Government they were revised in 1896 to provide for an

the bletery of Indian Rallways very closely received cancilon to the building of lines by ernment had therefore again to resort to the system of guarantee, and the Indian Midland (its 2.85), since absorbed by the Great Indian Peninsula; the Bengal-Nagpur (1883-87). the Southern Maratha (1882), and the Arsam-Bengal (1891) were constructed under guarantees, but on easier terms than the first companies. Their total length was over 4,000 miles.

Famine and Frontiers.

In 1879, embarrassed by familie and by the fall of the exchange value of the rupee, Government again endeavoured to enlist unaided private enterprise. Four companies were promoted,—the Nilgiri, the Delhi-Umballa-Kalla, the Bengal Central, and the Bengal North-Western. The first became bankrupt, the record and third received cuarantees, and the Tirhut Rallway had to be leased to the fourth. A step of even greater ir-portance was taken when Native States were invited to undertake construction in their own territories, and the Nizam's Government guaranteed the interest on 330 miles of line in the State of Hyderabad. This was the first of the large system of Native State Railways. In the first period up to 1870, 4,255 inites were opened, of which all rave 42 were on the broad gauge; during the next ten years there were opened 4,230, making the total 8,404 (on the broad gauge 6,562, the metre 1,865, and narrow 67). Then ensued a period of linancial case. It was broken by the fall in exchange and the costly lines built was the tearler. The Pendick Incident, which on the frontier. The Penjdeh incident, which brought Great Britain and Russia to the verge of war, necessitated the connection of our outposts at Quetta and Chaman with the main outpose at queets and chains with the main trunk lines. The sections through the desolate liarnal and Bolan Passes were enormously costly; it is said that they might have been ballasted with rupes; the long tunnel under the Kholak Pass added largely to this neceseary, but unprofitable outlay.

Rebate Terms Established.

This induced the fourth period—the system of rebates. Instead of a gold subsidy, companies were offered a rebate on the gross earnings of the traffic interchanged with the main ings of the trime interchanged with the main line, so that the dividend might rise to four per cent, but the rebate was limited to 20 per cent, or the gross earnings. Under these con-ditions, there were promoted the Ahmedabad-Prantel, the South Behar, and the Southern Punjab, although only in the case of the first were the terms strictly adhered to. The Barri were the terms strictly address. The Jars Light Railway, on the two feet six inches gauge, entered the field without any guarantee, and with rolling stock designed to illustrate the carrying power of this gauge. The rebate terms being found unattractive in view of the



crease in the trade of India found the main | Board with the Companies; an informal mission lines totally unprepared. Costly works were necessary to double lines, improve the equipment, provide new and better yards and terminal facilities and to increase the rolling stock. Consequently the demands on the open lines have altogether overshadowed the provision of now lines. Even then the railway budget was found totally inadequate for the purpose, and a small Committee sat for the purpose, and a small Committee ant in London, under the chairmanship of Lord Incheape, to consider ways and means. This Committee found that the amount which could be remuneratively spent on railway construction in India was limited only by the capacity of the money market. They fixed the annual allotment at £12,000,000 a year. Even this reduced sum cannot always in Lorential. be provided.

Government Control.

As the original contracts carried a definite Government guarantee of interest, it was necessary for Government to exercise strong supervision and control over the expenditure during construction, and over management and expenditure after the lines were open for traffic. For these purposes a staff of Consulting Engineers was formed, and a whole system of checks and counterchecks established, leading up to the Railway Branch of the Public Works Department of the Government of India. As tradic developed, the Indian Railways outgrew this dry nursing, and when the original contracts expired, and the interests of Government and the Companies synchronised, it became not only vexatious but unnecessary. Accordingly in 1901-02 Mr. Thomas Robertson was deputed by the Secretary of State to examine the whole question of the organisation and working of the Indian Railways, and he recommended that the existing system should be replaced by a Railway Board, consisting of a Chairman and two members with a Secretary. The Board was formally constituted in March 1905. The Board is outside, but subordinate to the Government of India in which it is represented by the Department of Commerce and In-dustry. It prepares the railway programme of expenditure and considers the greater questions of policy and economy affecting all the lines. Its administrative duties include the construc-Its administrative duties include the construc-tion of new lines by State agency, the carrying out of new works on open lines, the improve-ment of railway management with regard both to economy and public convenience, the arrangements for through traffic, the sottle-ment of disputes between lines, the control and promotion of the staff on State lines, and the general supervision over the working and expenditure of the Company's lines. Two minor chances have taken place since the constitu-tion of the Railway Board. In 1909, to meet the complaint that the Board was subjected to excessive control by the Demeet the complaint that the Board was subjected to excessive control by the Department of Commerce and Industry, the powers of the Chairman were increased and he was given the status of a Secretary to Government with the right of independent necess to the view of the right of independent necess to the gravity of the University in the status of the Independent necess to the view of the Railwey cannot be long delayed. All the Burma lives are on the metre gauge, I since the opening of the Basis line, Illustrating the capacity of the the two feet six luch gauge, there has been developed a tendency to construct feedors on plaints of the excessive luterference of the

was undertaken by Lord Incheape to reconcile differences. The constitution of the Board is now undergoing further inquiry, and the development generally favoured in the establishment of a Railway Member of the Viceroy's Executive Council.

Management.

The Railways managed by Companies have The Railways managed by Companies have Boards of Directors in London. They are represented in India by an Agent, who has under him a Traffic Manager, a Chief Engineer, a Locomotive Superintendent, a Store-keeper, a Police Superintendent, (who is appointed by Government), and an Auditor. The State Italiways are similarly organised.

Clearing House.

Proposals have several times been made for the establishment of a Clearing House but the distances are too great. The work which would ordinarily be done by the Clearing House is done by the Audit Office of cach Rollway.

The Railway Conference.

In order to facilitate the adjustment of domestic questions, the Railway Conference was instituted in 1876. This Conference was consolidated into a permanent body in 1903 under the title of the Indian Railway Conference Association. It is under the direct control of the railways, it elects a President from amongst the members, and it has done much useful work.

The Indian Gauges.

The standard gauge for India is five feet six inches. When construction was started the broad gauge school was strong, and it was thought advisable to have a broad gauge in order to resist the influence of cyclones. But in 1870, when the State system was adopted it was decided to find a more economical gauge, for the open lines had cost £17,000 a mile.
After much deliberation, the metre gauge of
3 fect 31 lipches was adopted, because at
that time the idea of adopting the metric system for India was in the air. The original intention was to make the metre gauge lines provisional; they were to be converted into broad gauge they were to be converted into broad gauge as soon as the traffic Justified it; consequently they were built very light. But the traffic expanded with surprising rapidity, and it was found cheaper to improve the carrying power of the metre gauge lines than to convert them to the broad gauge. So, except in the Indus Valley, where the strategic situation demanded an inbroken gauge, the metre gauge lines were improved and they become a permanent feature in the rallway system. Now there is a great metre gauge system north of the Ganges connected with the Ralputana lines and Kathlawar. Another System in Southern India war. Another System in Southern India embracing the Southern Maratha and the South

STATISTICAL POSITION.

The Administration Report of the Railways in India for the year 1915-16 dealt with the drst complete year during the whole of which war conditions have prevailed; conditions which are reflected in most of the figures dealt with. The most notable features are the reduced capital expenditure; and the recovery of railway gross receipts, which had seriously deteriorated in 1914-15, unaccompanied by a corresponding increase of outlay charged to revenue, due to as to continue progress, but generally at a the adoption of special measures designed to reduced rate on works already in rand which reduce expenses to the lowest practicable limit. This recovery of earnings without a rise of inconvenience. Funds were not been allotted revenue expenditure resulted in a drop of the percentage of working expenses to gross carnings to a figure (50.91 percent) which has been approached rarely during recent years.

Capital.—The capital outlay incurred by the Government in the purchase and construction of its rallways including the liability which remains to be discharged by means of Annuity

and Sinking Fund rayments, amounted at the end of 1915-16 to 2 365,813.347. outlay incurred during 1015-16 was £ 4,492,333 distributed as follows: Open Line Works including Sus-R5. 1,74,14,000 редзе Rolling Stock New Lines 4.05,44,000 0107,000 0,73,85,000 £4,492,333 Equivalent at Rs. 15 £ 1 to

During the year the actual capital expenditure fell short of the ranctioned grant for the year by Rs. 491 lakhs. This large lapse was due to endeavours made during the year to reduce outlay to the lowest rossible limits on account of the war as well as to difficulty experienced in importing material required for works. The expenditure of £3 millions on capital account tauctioned for 1916-17 was fixed to could not be interrupted without loss or great for the commencement of any new line of rallway, and provi-ion was made only for such new works as cannot with safety be postponed. The bulk of the expenditure proposed to be incurred in this year is on open lines.

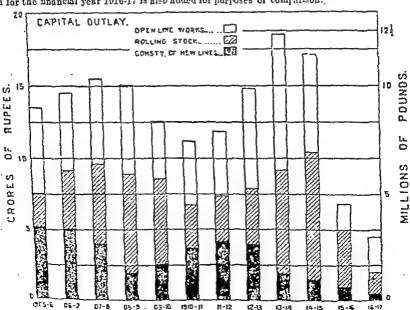
Capital Outlay.—The actual capital outlay on rallways which have been financed by private enterprise such as Branch Lines promoted by Companies. District Board Lines at the capital c Native State Lines, etc., amounted at the end of 1015-16 to Rs. 042321,000. The capital expenditure on such lines during the year

Was as follows:—			168.
Branch Line Companies'	Rally	rays.	2,05,39,000
District Board Lines		**	14,12,000
Native State Lines	• •	• •	1,16,57,000
		_	
			0.00.00.000

3,36,03,000

PROPOSED

The following diagram shows graphically how these figures compare with those of past years. The distribution of the grant of £ 3 millions (Rs. 4,50 lakks) which has been sanctioned for the financial year 1916-17 is also added for purposes of comparison.



Financial Results.

The following table compares the financial results attained in the working of the State Railways during the year 1915-16 with those of previous years (in the case of money the figures are shown in thousands):—

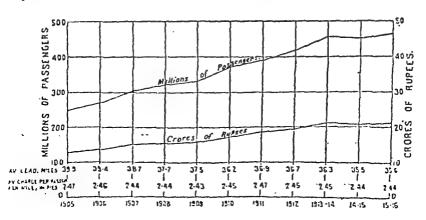
	1910-11.	1911-12.	1912-13.	1913-14. ·	1914-15.	1915-16.
Capital at charge at end of each year	£ 324.200	£ 331,247	£ 340,103	£ 351,302	£ . 361,556	£ 365,046
REVENUE. Gross traffic receipts.—State Railways	Rs. 45,94,46	Rя. 50,36,87	Rs. 55,02,95	Rs. 50,31,02	Rs. 61,16,78	R 57,26,4:
	21,45,92			29,35,01	-	29,53,00
Equivalent in sterling Rs' 15=£1 Percentage return on capital at charge .	£ 14,306 4.41	£ 16,316 4.03	£ 18,004 5129	£ 17,973 5:12	£ 16.410 4'54	£ 18,489 5106

The net working profits from State Railways after meeting interest and other miscellaneous charges amounted in the year 1915-16 to £4,076,000. It would have been more had it not been that in accordance with instructions of the Secretary of State for India certain Annulty and Sinking Fund payments which really go to the discharge of debt are included in the Railway Revenue Account.

The working expenses during the year 1915-16 amounted to Rs. 29.53 lakis or almost exactly the same as the actual working expenses of 1914-15. This result is remarkable seeing that the receipts of the year exceeded those of 1914-15 by over 3 crores. It was due entirely to expenditure especially outlay on special renewals having been restricted on account of the war to the amount which was importative and immediately remunerative.

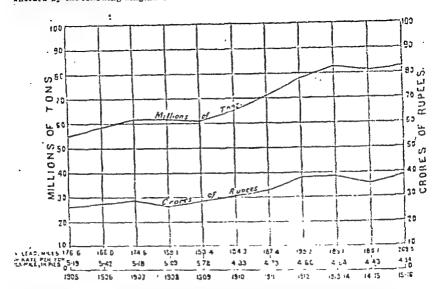
Passenger Earnings.

The number of passengers carried and the earnings therefrom on all Indian railways are ompared below :--



The increase in the passenger traffic during the year under rethwas compared with that of 14-15 was chiefly due to the revival of traffic after the outbreak of war, to the opening of new 13, the movement of troops and to fairs, pligrimages and marriage parties.

Goods Traffic.—A similar comparison of the tonnage of, and earnings from, goods traffic afforded by the following diagram:—



The better results of the year under review are attributable to the recovery of trade, as in the 150 of the coaching traffic, to the opening of new lines and to the movement of military storeshed diversion of the coal traffic to Bombay from the sea to the rall route owing to the abnormal lorings of shipping was also accountable for the increase.

The gross earnings of railways other than State lines, such as District Reards lines, Native tate lines, etc., during 1916-16 amounted to Rs. 729-85 lakks, as compared with Rs. 666-60 lakkts 1914-15 being an increase of Rs. 63-85 lakks, and as the working expenses were more only by 13. 27-94 lakks than the previous year, the net carnings rose from 183. 33-41 lakks to Rs. 360-32 lakks in 1916-16 or an increase of Rs. 35-91 lakks. These net carnings yielded a return on the 'apital outlay (Rs. 6,0.74-48 lakks) on open lines, that is on mileage earning revenue, of 6.08 per ent. as against 5.82 per cent. in 1914-15.

Mileage.—During the year 1915-16, 605.90 miles of railway were opened to traffic, bringing he total mileage open (after allowing for minor corrections due to realignments, etc.) up to 35,833 niles. The additional mileage was made up as follows:—

	5'-6" gauge,	3'-31" gauge,	2'-6" gauge,	2'-0" gauge.	Total.
	Miles.	Miles.	Miles.	Miles.	Miles.
State lines worked by the State	·	!			
State lines worked by Companies	84.01	56.75	1.07		141.33
Branch line Companies' rallways under rebate terms, worked by the Branch line Company			22.22		02+52
	1	2		•	4

Mileage -- continued.

	5'-6" gauge.	S'-31" gauge.	2'-6" gauge.	gauge.	Total.
Branch line Companies' rallways under guarantee terms, worked by the main line	1 1 132:71	·	49.75	40.20	223-08
Companies' lines subsidized by the Government of India		2.52	1.78		4.30
Unassisted Companies'lines	• •	! ! ••	1	18.00	18.00
District Board lines	21.00	25.04			40.10
Native State lines worked by Native States		41.41	20.70		71.20
Native State lines worked by the main line		46.00	8.89		·51°89
Companies' lines guaranteed by Native States ,	!		13.93		13.05
TOTAL	237:81	171 · 72	137-75	58.50	602-00

Ten Years' Progress.—The progress made during the past ten years is summarised in the following table:—

						Mileage o	pened a	t the end	l of			'
Gau	ge.		1906	1907	1903	1909	1910	1011	1912	1013-14	1014-15	1915-16
5'-6"	′		15,548	15,821	15,051	16,309	16,701	17.016	17,189	17,611	17,827	18,060
3"-32"			12,149			13.321				ŀ	14,552	!
2'-6"		ا	1,071	1,201	1,394	1,143	1,406	1,632	1,692	2,174	2,102	2,589
2.0 -			320	342	368	415	432	432	438	452	501	563
Total		••	29,097	20,010	30,576	31,490	32,099	32,839	33,484	34,056	. 35,285	35,833

Branch Line Companies.—The Branch Line | return of 32 percent, on the gald upshare capital Terms underwent no change during the year, of the Branch Line Company.

They provide for the grant by the Government | 2. A relate gald by the garent line from Terms underwent no change during the year.

They provide for the grant by the Government of India of financial assistance to private companies furnishing capital for the construction of feeder lines to existing railways in either of the branch, sufficient to make up a dividend of 5 per cent on the paid up share capital; the liability of the main line being, however, limited the following terms:

1. A firm guarantee by Government of a to the total of its net earnings from such traffic.

singh-Bhairab Bazaar Rallway Company, floated with an authorized capital of Rs. 86 lakhs of which Rs. 23 lakhs were raised under rebate terms and the balance under a guarantee.

In the province of Assam, on account of the relatively loss developed state of the country and the difficulty experienced in obtaining capital for private railway enterprises unver the ordinary terms, it has been provided that the Local Administration may in approved cases supplement the Imperial guarantee of 3 percent described above by the grant from provincial lands of an additional guarantee for a specified term of years of 1 per cent. on the paid up capital of the Company.

Owing to the general financial stringency during the year :-

The option is allowed to Companies, under created by the war, it became necessary to circumstances, of mising a portion of consider whether, in order to conserve the money . Ir capital under guarantee terms and the market for Government requirements, it was remainder under rebate terms. Advantage was desirable to discontinue the flotation of Branch recently taken of this ontion by the Ivmen- Line Companies until the end of the war. A drastle curtallment of expenditure under the Government's railway programme for the year 1916-17 had, however, already been decided upon and it was in the circumstances considered unnecessary to place any special restrictions on the operations of Branch Line Companies until the end of February 1916, when the market was closed to these as well as to local bodles in connection with the Government's own borrowing operations for the year 1916-17.

> That the prevaling financial stringency has in no material degree adversely affected the business of Branch Line Companies will be clear from the table below, which gives details of the railways sanctioned for construction

Name of	railway	*.		Gauge.	Length.	Capital subscribed.	Financial assistance.
			 '			Re. (in lakhs).	
Kalighat-Falta			 	5,0.	25.01	10.50	Guarantee
Maynebhunj			 	2.6	38.92	22.25	Rebate.
Putwah-Islampur				2'6"	27.00	11.50	Guarantee.
Chaparmukh-Slighat			 	3'3;"	32.00	20.00	Guarantee.
Khulna-Bagirhat				2'6"	20.50	8.23	Relate.
Jaljon Extension	.,		 	5'6"	10.00	12.00	Rebate.
Tarkhana-Jacobabad			 	2'6"	75.45	27.00	Rebate.
Katakhal-Lalabazar			 	3'3;"	23.30	9.00	Guaranter.

the parentline is on the standard gauge.

In addition to the lines shown in the table. negotiations had been practically completed before the end of the year for 178 miles of railway, while applications covering an aggregate mileage of 3,656 miles and involving a total expenditure of some 131 millions sterling were under consideration when the year closed.

The feature of the year as regards District Board enterprise in the Madras Presidency has been the greater extent to which the District Roards have made use of their facilities for

In this form of local enterprise, no other pro- were sanctioned.

The results of the year show a continued vince having so far enacted legislation for the preference for the narrower gauges the metre- levy of a railway cess, though a bill empowering gauge being adopted for the branch line, where District Boards to levy a railway cess was inthe parent line is on that gauge, but the 2 feet troduced in the Legislative Council of the G inches gauge, in every case but one, where legislation in this behalf has however been recognised elsewhere, and it may be expected that when the war is over, the necessary Acts will be passed to enable other provinces to fol-low the lead given by Madras.

Native States .- The progress of new construction in Native States was to some extent restricted owing to lack of funds caused by the large contributions direct and indirect, which the Native States have made to the Imperial resources for the conduct of the war. The Hanumangarh-Sadulpur, Blkaner-Kolayat and Veraval-Una railways in the Blkaner and Junagad States respectively aggregating 189

The Madras Presidency still stands alone miles of new construction on the incirce gauge States open to traffic at the clove of the year ! Schools. was 4,644 miles, distributed between the variouarte neunder :--

				Miles,
5.46	231120	 ••		636.55
3.43},	**	 	:	2,915178
21-6	**	 • •	• •	474167
3,41.		 • •	• •	256'96

Accidents. - A gratifying feature of the period under review has been the remarkable freedom of railways from accidents to running trains of a specially serious nature.

The total number of persons of all classes killed by causes beyond their control was 38, against 76 and the number injured 237 against 320 in the previous year. Out of a total of 464 millions of passengers traveling 247 were killed and \$21 injured, while of the former only 1 were killed through causes beyond their own control. own control.

Employes.-The total number of servants in Employes.—The could number of servants in railway timpley at the close of the year was wise coal trade owing to the large demands on (26,500 of which number 7,273 were Europeans, account of military and naval requirements, 10,412 Anglo-Indians and Co8,805 Indians, Of the Europeans and Anglo-Indians 15,440 were fuel instead of coal in order to economise transcribed as Volunteers. At the close of 1915-16 port from the distant coalfields to the Norththere were 11,232 children and 10,474 apprens.

The total mileage of military in Native offices and workmen attending the Railway

. War and Rallways .- In addition to the very heavy traffic out of war conditions the Indian Rallways had to meet several other military requirements. A considerable number military requirements. A considerable number of officers and men volunteered for inflitary duty. In all the Rallways set free 350 clvil officers in addition to 47 Royal Engineer Officers and over 2,000 subordinates. A Munitions Branch of the Rallway Board's Office was constituted in July 1015 for the manufacture of shells. Up to the 31st March 1016 India supplied to exp. litlonary forces 50 locomotives. 600 vehicles, 165 inites of rails and fastenings and half a million skepers. Many hospital trains were equipped. The virtual closure of the sea route from Calcutta to Bombay for roal owing to the very nigh price of freight and the shortage of shipping throw a further very the avoided on the railways. Before the war the annual export of coal from Calcutta to Madras, Bombay and Karachi was 1,440,541 tons. It is known that the additional volume of traffic thrown upon the railways was much greater than the ordinary figure of the coast-

THE CHIEF RAILWAYS IN INDIA.

The Assam-Bengal Railway, which is con-structed on the metre gauge, starts from Chitta-gong and runs through Surma Valley across the North Cachar Hills into Assam. It is worked under a limited guarantee by a company whose contact is terminable in 1021. The main line has an open mileage of 80702. The total capital outlay is Rs. 1,640 lakis, gross carnings 67 lakis, net carnings, 14 lakis and the percentage of autorungers, the capital outlay and of net earnings on the capital outlay 0.01. The loss to the State for 1915-16 was Rs. 37,58,407.

Bengel and North-Western.

The Bengai and North-Western Railway was constructed on the metre gauge system by a company without any Government assistance company without any Government assistance ofter than free land and was opened to traffic in 1855. The system was begun in 1874 as the Tirhut State Italiway. In 1890 this line was leased by Government to the Bengal and North-Western Railway. Since then extensive additions have been made in both sections. It is connected with the Balputana matter gauge system at Company and with metre gauge system at Cawnpore and with the Eastern Bengal State Railway at Khatihar and the Outh and Rohlikhand Raliway at Benares. The open mileage is 2,000.54. The total capital outlay amounts to its. 950 lakis, gross carnings 102 lakis, net carnings Rs. 60 lakhs and interest divided between the Government and Company Rs. 85 lakhs; percentage of total net income on capital outlay 6:10. Tithut rallway: Total

capital ontiay Rs. 873 lakhs, gross carnings Rs. 93 lakhs, net carnings Rs. 56 lakhs, cain to the State Rs. 24 lakhs, and percentage 6.91.

Bengal-Nagpur.

The Bengal-Naspur italiway was commenced as a metre gauge from Naspur to Chintisgarh in the Central Provinces in 1887. A company was formed under a guarantee which took over the line, converted it to the broad gauge and extended it to Howrah, Cuttick and Katni. In 1901 a part of the East Coast State Rallway from Cuttack to Vizagapatam was transferred to it and in the same year sanction was given for an extension to the sanction was given for an extension to the coal fields and for a connection with the Branch or the East Indian Rankway at Barlaarpur. Open mileage 2.740.60; under construction or canctioned 30.30.2; total 3.048.71. The total capital outlay is Rs 4.076 lakhs, gross carnings Rs. 443 lakhs, net carnings 226 lakhs, percentage of net carnings on capital outlay is 5.96. The gain to the State is 68 lakhs,

Bombay Baroda.

The Bombay, Baroda and Central India Railway is one of the original guaranteed rallways. It was commenced from Surat via Baroda to Ahmedabad, but was subsequently extended to Bombay. The original contract was terminable in 1880, but the period was extended to 1905; and then renewed under revised conditions. In 1885 the Rajputana "was leased to the Company and has since been percentage of net eventure on expital cuttage incorporated in it. On the opening of the 800; pain to the State 200 likes, Nagda-Muttra, glving bread gauge connec-tion through Tastern Rajputana with Delhil the working was entrusted to this Company. On the acquisition of the Company in April 1007 the purchase price was fixed at £11,053,551, The statistical working of the broad gauge shows a fullence of 000.05, the capital outlay 2,497 laklis, gross carnings 873 laklis, net-carnings 190 laklis, percentage of net carnings on the capital outlay 7-85; gain to the State 71 lakhe.

The metre gauge system of the Company shows a mileage of 1,821.61; total capital outlay 1,714 light, gross carnings 310 laking net carnings, 108 lakins; percentage of net carnings on the capital outly 0.81; rain to the State 111 lakhs.

Burma Rallways.

The Burma Railway is an isolated line, and although various routes have been surveyed there is little prospect of its being connected with the Railway system of India on account of the difficult and sparrely populated country which intervenes. It was commenced as a State Railway and transferred in 1806 to a Company under a guarantee. The mileage is 1,508'46, total expital outlay Rs. 1,780 lakhs, gross earnings 160 lakhs, net earnings 84 lakhs; percentage of net earnings on the capital outlay 4.74, gain to the State 14.16 lakhs. Burma extensions have a total mileage of 253 18.

Eastern Bengal.

The Eastern Bengal State Ballway was promoted under the original form of guarantee and was constructed on the broad gauge. The first portion of the line running to Calcutta over the Ganges was opened in 1862. In 1874 sauction was granted for the construction on the metre gauge of the Northern Rengal State Rallway, which ran from the north bank of the Ganges to the foot of the Himalayas on the way to Darjeeling. These two portions of the line were amalgamated in 1884 into one State Rallway. The open mileage is 1,745.03, capital total outlay 3,598 lakhs, gross carnings 348 lakhs, net earnings 137 lakhs, percentage of net carnings on capital outlay 3.83 Loss to the State Rs. 24,763 lakhs.

The East Indian.

The East Indian Railway is one of the three tallways sanctioned for construction as experimental lines under the old form of guarantee The first section from Howinh to Pandua was opened in 1854 and at the time of the Mutiny ran as far as Raniganj. It gives the only direct access to the port of Calcutta from Northern India and is consequently fed by all the large rallway systems connected with it. In 1880 the Government purchased the line, paying the shareholders by annulties, but leased it again to the company to work under a contract which is terminable in 1919. The

alwa metro gauge system of State militarys (cornings 1,931 let be, net earnings Be 650 lab) ;

Great Indian Peninsula.

The Gerat Indian Penticula Rallway is the carlied line undertaken in India. It was promoted by a Company under a guarantee of o per cent, and the first section from Bonday to Them was open for traffic in 1850. Cancilor was given for the extension of this line til Poons to Rathur, where it connects with the Madms Rollway, and to Jubiulpers white it meets the East Indian Rallway. The fraintr of the line to the pavenge of the Western Ghats, these rections being 18% pilles on the River Rollad and 64 miles on the Third Ghat which the 1,101 and 972 feet. In 1999, the contract with the Government terminated and under an arrangement with the Indian Milland Railway that line was attalgamated and imand to Company to work. The open mileage 3,26-35, under construction or cauction 162:07; 3,26,75, under consequent in or canalism of total 3,470,790. The total capital outlay on the Company's own system of 2,501,70 miles 6,518 lakhs, gross carnings, 604 lakhs, not carnings 0.57 lakhs, percentage of not carnings on capital outlay 4.95; gain to the State 21

Madras Ballway.

The Madras Railway was the third of the original milways constructed as experimental lines under the old form of gnamater. It was projected to run in a north-westerly direction in connection with the Great Indian Peninsdia Railway and in a coutti-nesterly direction to Calleut. On the expiry of the contract in 1907 the line was amplemented with the Southern Mahmita Rallway Company, a system on the metre gauge built to met the famine conditions in the Southern Mahmita County and refrased to a large Company called the Madras and Southern Mahratta Rallway Company. The mileage is \$163.55. The capital outlay on the Company's broad gauge system of 1047'59 miles is 1,563 inkhs; pro's carnings 255; net 126 percentage 6.78; metregauge-milicage 2567-19; empital outlay 3,241 lakis; gross carnings 413 lakis; net 196 lakis; percentage 6.08; loss to the State 13 laklis : annuity payment 73 inklis.

The North-Western.

The North-Western State Railway began its existence at the Sind-Punjab-Delhi Railway, which was promoted by a Company under the original form of guarantee and extended to belli, Multan and Lahore and from Karachi to Belli, Multan and Lahore and from Karachi to Kotrl. The interval between Kotrl and Multan was unbridged and the railway tradic was exchanged by a ferry service. In 1871-72 sanction was given for the connection of the by the best rains. this by the Indus Valley State Italiways and at the same time the Punjab Northern State Railway from Lahore towards Peshawar was begun. in 1896 the Sind-Punjab-Delhi Rallway was acquired by the State and amalzamated with these two rallways under the name of the Northopen mileage is 2,719°05 under construction open mileage is 2,719°05 under construction of fanction 04°18, total 2,813°23. Total capital in India under one administration. The outlay (on 2,418 miles) Rs. 7,100 lakbs, gross opened mileage is 5101°06, under construction

or sanction 140:99, total 5575.59. The statistical results of the working of the State owned 1000:33 miles are total outlay-Its. 86:38 lakhs, gross carnings 841 lakhs, net carnings 360 lakhs, percentage of carnings on capital outlay 4:17. gain to the State 18 lakhs.

Oudh and Robilkhand.

Oudh and Robilkhand Railway was another of the lines constructed under the original form of guarantee. It began from the north bank of the Ganges running through Robilikhand as far as Saharanpur where it joins the North-Western State Rallway. It was not until 1887 that the bridge over the Ganges was company to the control of the co pleted and connected with the East Indian Railway. To effect a connection between the metre gauge systems to the North and those to the South of the Ganges, a third rall was laid between Bhuriwal and Cawapore. The Company's contract expired in 1889 when the Railway was purchased by the State and has since been worked as a State Railway. The opened mileage is 1.038-01, under construction and snottlen 64*55, total 1,703'40. The total capital outlay on the State system of 1,600 miles is 2,146 lakhs, gross earnings 223 lakhs, net earnings 112 lakhs, percentage of net earnings on capital outlay 5*24, gain to the State was 20 lakhs.

The South Indian.

The South Indian Rallway was one the original guaranteed railways. It

begun by the Great Southern India Railway Company as a broad gauge line; but was converted after the seventles to the metre gauge. This line has been extended and now serves the whole of the Southern India, south of the south-west line of the Madras Railway. Between Tuticorin and Coylon a ferry service was formerly maintained, but a new and more direct route to Ceylon via Rameshwaram was opened at the beginning of 1914. As the original contract ended in 1907, a new contract was entered up-on with the Company on the 1st of January 1908. The open mileage is 1787-80, under construction or sanction 123 of, total 1,020 of the construction or sanction 123 of, total 1,020 of the sanctistical results of the working of the Company's system of 1,465 17 miles gives a capital outlay, 1,896 lakhs, gross carolings 295 lakhs, net carnings 149 lakhs, percentage of net carnings to capital outlay of 7 of; gain to the State 80 lakhs.

The Native States.

The principal Native State Railways are: The Nizam's, constructed by a company under a guarantee from the Hydernbad State; the Kathlawar system of railways, constructed by subscriptions, among the several Chiefs in Kathlawar; the Jodhpur-Bikaner Railway, constructed by the Jodhpur and Bikaner Chiefs; the system of milways in the Punjab construced by the Pathila, Jind, Maler Kotla, and Kashmir Chiefs; and the railways in Mysora constructed by the Mysore State.

INDIA AND CEYLON.

The possibility of connecting India and Ceyion by a milway across the bank of sand extending the whole way from Rameswaram to Mannar has been reported on from time to time, since

1805 various schemes having been suggested.

The South Indian Rallway having been ex-The South Indian Railway inlying been extended to Dhanushkodi, the southernmost point of Rameswaram Island, and the Ceylon Government Railway to Talaimannar, on Mannar Island, two points distant from each other about 21 miles across a narrow and shallow that the soulce the agree hope in the control of the strait, the project has again been investigated with the idea of connecting these two terminal stations by a railway constructed on a solid embankment raised on the sand bank known as "Adam's Bridge", to supersedo the ferry steamer service which has been established between these two points,

In 1013, a detailed survey was made by the South Indian Railway Company, and a project has now been prepared. This project contemplates the construction of a causeway from Dhanushkodi Point on the Indian side to Talai-mannar Point on the Coylon side, a length of 20.05 miles of which 7.10 will be upon the dry land of the various lands, and 12.86 will be in water. The sections on dry land will consist of low banks of sand pitched with coral and present no difficulty. The section through the sea will be carried on a causeway which it is prowill be carried on a causeway which it is prowill be carried on a causeway which it is proposed to construct in the following way. A
double row of reinforced concrete piles, pitched
in the fact centres and having their inner faces: in-charge of the surveys to determine the less

14 feet apart, will first be driven into the sand. These piles will then be braced together longitudinally with light concrete arches and chains and transversely with concrete arcies and chains and transversely with concrete ties, struts and chains. Behind the piles slabs of reinforced concrete will be slipped into position, the bottom slabs being sunk well into the sand of the sen bottom. Lastly, the space enclosed by the slabs will be filled in with sand.

The top of the concrete work will be carried to six feet above high water level, and the rails will be laid at that level. The sinking of the piles and slabs will be done by means of water jets. This causeway, it is expected, will cause the suspended sand brought up by the currents to settle on either side bringing about rapid accretion and eventually making one big island of Rameswaram Island and Mannar Island,

If this method of construction is adopted, it is estimated that the total cost of the causeway and works at the two terminal points, viz:proximately 111 lakhs.

Indo-Burma Connection.

The raids of the Emden in the Bay of Lenga in 1914, and the temporary interruption of communications between India and Burms, stimulated the demand for a direct rallway conBAK

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PAL

TO CEYLON. PROPOSED RAILWAY FROM INDIA route for a railway from India to Burma. The coast route appears to be the favoured one. This would start from Chiltagong, which is the terminus and head-quarters of the Assam-lengal Railway and a search for the Assam-lengal Railway and a s Bengal Rallway and a scaport for the produce of Assam. The route runs southwards through the Chittagong district, a land of fertile rice fields intersected by big rivers and tidal creeks and it crosses the Indo-Burma frontier, 94 miles from the town of Chittagong. For about 160 miles further it chiefly rups through the fertile the land of the land of the land of the land. rice lands of Arrakan and crosses all the big tidal rivers of the Akyab delta. These include the Kalidan river which drains 4,700 miles of country and even at a distance of about 30 miles from its mouth is more than half a mile wide. About 260 miles from Chittagong the railway would run into the region of mangrove swamps which fringe the seacoast north and south of the harbour of Kaukkphu stretching out into the mangrove swamps like ribs from the backbone, Innumerable spurs of the Arrakan Yoma have to be crossed. Yoma is a mountain ridge which extends from Cape Negrals northwards until it loses itself in a mass of tangled hills east of Akyab and Chittagong. At its southern end the height of the ridge is Insignificant but it has peaks as high as 4,000 feet before it reaches the altitude of Sandway and further north it rises much higher. It is a formidable obstacle to railway communication between India and Burma. This route is estimated to cost about £7,000,000 and would have to be supplemented by branch lines to are restored.

The other routes examined have been the Hukong Valley route and the Manipur route which were surveyed by the late Mr. R. A. Way many years ago. The Manipur route is estimated to cost about £5,000,000 as it has to cross three main ranges of hills with summit levels of 2,650, 3,600 and 8,900 feet long. Altogether there would be about four miles of tunnelling through the three main ridges and through other hills and more than 100 miles of expensive undulating railway with grades as steep as 1 in 50 and 11,000 feet of aggregate rise and fall. The Hukong valley route seems to be the cheapest one as it is estimated to cost £3,500,000. This line is only about 284 miles long and it presents fewer engineering difficulties than either the Coast or the Manipur route. One hundred and fifty miles of this route lie in open country capable of cultivation though at present it is only very thinly populated. Only one range of hills has to be crossed and this can be negotiated with a summit tunnel of 5,000 feet long at a height of 2,500 feet. There are less than fifty miles of very heavy work and only about 4,500ft. aggregate of rise and fall.

It is understood that the construction of this line will constitute one of the first changes on the Railway Budget when normal conditions

Turtlandurs. 1908, 1908, 1910.	1008.	1000,	1010.	1101		JUE: 1010241 1013-101 1010-111		1110101	
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Gross carnings per mile open "	11,063	14,918	15,936	10,833	14,412	18,030	17,123	18,041	$R\ell$
Gross cardings por mile open per week	21	287	300	27	351	68	320	218	กใน
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Percentage of not carnings on total capital outlay (nem 2)... Per cent,

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Main results of working of all Indian Railways treated as one system—cond.

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2	Wixe I train-inites (in thousands)	110,02	30,859	31,980	33,716	31,910	31,581	35,514	34,171
	telly including miscellancous terligables (in thousands)	127,841	128,260	132,823	142,911	152,701	150,276	157,119	159,038
٤	Calt-inflete of presenger (in thousands)	12,102,929	075,108,21	010,276,11 771,261,81	11,372,013	15,318,872	16,611,083	10,022,810	16,328,010
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† Now worked by Great Indian Peninsula Rallway. • Worked by a Company. † Amalgamated with Lastern Bengal Rallway. § These are the latest figures published in 1016.

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Irrigation.

In (): West in rail s, is a care leaving, described to constructed through direct agency runed where it rains to thereae the good shared study be constructed by the State from Exite of a will alter of a critate crop in for a front finds as productive public north, organized the Fail, and superly to find the first tendence.

The British Inheritance, product to be of the first tendence to be on the first to be of the first tendence. large tracts, each at the description and their for right intention norks. One of there was When the described in the described in the described for the described works. One of three was morthly been for jable, which are placed able to the Grand Anicul—the local term for barrage—long three are others, so the second stretching across the width of the Cauvery plates, where o literal is the entirely of the tableally few or also charge. In the Punjab three were a case we concern that the tree lastly of the tableally few or also charge. In the Punjab three were a case of the following across the internal to the following to the five and following the first and the local terms are across to be for and the first and the first are also charge to be substituted by the Minhammedian and then are across to be for any last of the first and following to be discount to the case of the first and are brighted as the first and for the first and for the dimma were brought to the last of the area was a term where a the describe the metallicent book of the city by the Mindials. It have a was a term where a the describe in the distinct these works ever befored any It are are creat areas where a the charter, which its doubtful if there works ever irrigated any to extend the transf, or rain curp, can to round considerable areas or conferred much benefit on years to raised the two constraints, but the people, but they suggested the model on where the second curp, the s couch as in their sixty-five per control the repus-lation is still dependent upon agriculture for the recurs the full level required on the utilisation recars of list-lood, this buf summary indi-enters the engineers importance of infection to also designed the works which, constructed and the community,

its Early History.

If it figures it have been practical from time which takes on mone and boldness of design in Irida, should have been practical from time and which in magnitude and boldness of design work immercarial. In the listery and imagery of the and which in magnitude and boldness of design East, there is no figure more familiar than the line not been surpassed by any irrization work well, with primitive ments for raising the mater, in India or clewhere. In this way were laid followed to-day much as they were in Bible days. In the early recents of the peoples of India. The work was gradually pushed for-India, dating back to many years before the ward. In Northern India a great system of Christian etc., there are frequent inferences to canala was constructed, chiefly in the Punjab the traiting of legistics. Well, has been because were laided to be the results of legistics. the practice of irrigation. Wells have been in and the United Provinces. Some of these, like the from time immemorial; most of the in-the great Chenab Canal, ought to be classed commended tanks in Southern Inde. have been amongst the wonders of the world. It irrigates in use for many generations; the justice of drawing off the flood waters of the Indus and its tributaries by means of small inundation canals has been followed from a very early date; and in the submontane districts of Northern India are still to be found the remains of ancient irrigation channels, which have been buried for centuries in the undergrowth of the forests. But in the direction of constructing large and scientific works for the utilisation of the surplus waters of the great river little was done before the advent of Brittleh rule, and they are comprimitively of recent date.

The State Intervenes.

Irritation works in India may be divided into three main heads-wells, tanks and canals. The greatest and the most impressive are the canals, and there may arrest attention first, because they constitute one of the most enduring monuments to British rule. They have in British India been constructed by direct State agency. In the early days of modern irrigation, certain works in the Madras Presidency were carried out by a guaranteed company, and the Orissa canal project was commenced through the same agency. Both Companies fell into difficulties,

The Britth Government in India inherited a improved at an outlay of three crores, Irrigate more than two million acres in the Godaverland Kistna deltas. In Northern India Sir Probyn It is natural, in such conditions, that irrigation | Cautley constructed the great Ganges Canal, which takes off from the river near Hardwar. nearly two million acres, or about two-lifths of the cultivable area in Egypt, with an ordinary discharge of eleven thousand cubic feet per second, or about six times that of the Thames at Teddington. The Chenab and the Jhelum Canals brought under irrigation great areas of Government waste, and thereby allowed the system of State colonisation, which relieved the congestion on the older villages of the Punjab. and established colonies of over one million of people on what had been the desolate abode of a handful of nomads. In the Bombay Decean Lake Fife and Lake Whiting, drawing their supplies from the Ghats and spilling them over the arid tracts of the Deccan. In Madras there was completed the boldest and most imaginativ irrigation work in the world; by the device of constructing a reservoir at Perlyar, on the outer slopes of the ghats, and carrying the water by means of a tunnel through the intervening bill. the Madras Government turned the river back on its watershed and poured its waters over fertile lands starved by want of moisture. But these Deccan works did not pay. The cultivators would not use the water in years of good minfall, and there was not enough to go far in scasons of drought; the inevitable result of such and the system into disfavour; during the conditions was to concentrate attention upon Viceroyalty of Lord Lawrence it was decided the remunerative works on the rivers of the that all irrigation works which promised a Punjab, and to leave protective irrigation to reasonable return on the capital expenditure will for want of funds.

15) rullion series or 42 per cent, was watered by results for works of all classes are shown in the state works (canals and tanks), and 253 million following table: arms, or 33 per cent, from private works, of

which rather more than one half was from well-The Irrigation Commission.

in order to institute policy for spasmodic During the previous quarter of a century the left, the Irrigation Commission was appointed area irrigated by Government works had been Let Let Carron's Commission the appeared by 8 million acres, or by eighty per mide a detailed curver of the conditions of the centry, and projected the report which is the thermost of Indian Irritation policy to-day. Indian the same period the area under private irrigation therefore compiled by the Commission illuster of a total addition to the irritated area in Britist. that the process which had been made up to India of 11 million acres or 60 per cent. Includitate period. They showed that out of an area ing the Native states the area under irrigation of 220 million acres annually under crop in the annually within the British Empire was placed refeative previnces of Bruish India, in round at 53 million acres (19 million from cause, 16 harder it millions acres, et 191 per cent, were million from wells. 10 million from tanks, and welliantly trainated. Of the total area trainated 8 million from other sources). The financial

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Charof Work.	Capital Guthy to mid of 1900-01. Labbe of Rupe c.	Interest clurges at 4 per cent, on Capital Outlay, Lakhs of Rupess,	Net Revenue in 1900-01. Lakhs of Rupecs.	Net Revenue less charges for Interest. Laklis of Rupess.
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In round numbers the State irrigation works, then yielded a net revenue after meeting all charge, including unterest, of about two erests of supers and initiated annually over nineteen million nerro

The Commission's Programme.

The Commission reported that the field for the o tetrartion of new works of any magnitude on which the net resenue would execut the inter-t clarges was limited, I day metriated to the Purish Sis I and parts of Madms—tracts for the most part not liable to famore. They recommended that works of this class should be constructed as fast as possible, not only because they would be possible investments, but also legition they would income the fewl supply of the country. Then addressed them lives to one a viry interesting equation. Taking the district of Sholagur, in the Bembay Bergan. perhaps the most damme mosphish district in hide, they entrolated that the cost of famous "The first was Stille of supers a year. I'mm the defection, and making allowance for the adventage of fangue axis liner as compared with famous telest, they said that the State was justifor in price to the half in such a district of a red of all raises for acre. For the general profesion of the Dotatay Thomas they reconmarked mark by from stenare labe in the fit stands or the establish power from known to tallered in the driety ears. For Madra: they terminated the incomming of the old luministic project and of a chiere to ching work on the bloom. They proceed that tensor mentational undertail construc-

parts of India, which would cost not less than 44 crures of rupers and would result in an increase of 6,500,000 acres to the impated area. They estimated that the construction of these works would impose a permanent yearly burden of marly 74 takks on the state, through the exems of interest charges on capital cost over the net revenue produced from the works. Against this would have to be set the reduction to the cost of fature famines, resulting from the construction of the works, which the Commission rut at 31 lakhs per annum. The balance of 13 lakes would represent the net annual cost of the norks to the State, or the price to be pold for the protection from familie which the works would affent, and for all other indirect advantages which might be attributed to them,

The New Polics.

The principal effect of the Initiation Commisshale edect, and the preures since made has been remarkable. The action taken on the recommendation of the Commission is thus summarised by the Government of India in a fecend forms

Punjab Triple Project.-in the year 1941 april on year application to the Government et India but the irrigation of the lower Day day by to me of a canal taking out of the that trees more though under the positive of only five to decrease the tree for the fortistion of properties with the trees of the trees of the Commission that it would be more adventised. 117 IN FUNCTION WITH IN THE HEADTH WAS ARRESTED AND ALTER HEADTH AS HEADTH AND ARRESTED AS A MIGHT OF A MARKET OF A STATE OF A MARKET OF A the ample surplus waters of the Juctum river Bombay Decean.—The Chankapur project to serve these vast areas, thus leaving the has been finished, the Godavari canals are Sutles and Bene waters free for utilization in the Suticy valley. Subsequent investigations showed that this iden was feasible and the project consisting of three distinct systems, the Upper Chenab, and the Lower Jhelum, the Upper Chenab, and the Lower Bari Doab canals was sanctioned in 1904. It has now been practically completed, and the Upper Jichum Canal was opened by Lord Hardinge in December 1915. To secure the full benefits of this great work it is anticipated that the storage of the Woolar Lake in Kashmir will have to be increased. The total estimated cost of the combined system is 101 crores of rupees.

Sind Sagar Canal.-The Latigation Comexpressed a hope that it would be possible in the future to undertake the construction of a canal drawing its waters from the Indus for the irrigation of the wide expanse of desert in the Mianwall and Muzaffargarh dis-tricts known as the Sind Sagar doab. The investigation of the project has been deferred until other far more promising schemes are advanced.

Woolar Lake Storage.—It was suggested to the Commission that the Woolar lake in Eashmir should be converted into a storage reservoir for the purpose of augmenting the water supply of the Triple project. This proposal was however dropped in 1905, because the Government of India were advised that the areas to be served by the Triple Canal system would not require more water than was already available in the rivers from which the canals derived their supplies. It has since been found however, that the dredging operations, by lovering the bed of the lake, have diminished the flow of the Jhelum river at certain periods. It will consequently become necessary to con-struct a dam across the Jheium in order to give an adequate supply of water to the several systems dependent on the cold weather supply of the river and the Government of India have recently ordered the preparation of a project for this purpose.

Sutief Valley Project.—The Commission drew attention to the possibility of increasing irrigation in the Sutley valley by the construction of weirs on the riverso as to give a more assured and regular supply of water in all seasons to the existing British inundation canals in that tract. Subsequent investigations have shown that a which the Native States of Bahawalpur and Cikanir would also benefit. A preliminary

project is now under investigation.

Sind.—The question of converting the network of inundation canals in Sind into perennial channels by means of weirs across the river Indus has been considered at various intervals during the past 50 years. As a result of the investigations that were made a scheme was drawn up for the construction, at a cost of some '72 crores, of a barrage at Sukkur with a canal on the left bank which would have been the largest irrigating channel in India. The project an alternative project, estimated to cost Rs. 200 as drawn up did not meet with the approval lakks, which is now engaging consideration. of the technical advisers of the Secretary of The Commission recommended the investigated by the gatton of canals from the rivers flowing through Bombay Engineers.

approaching completion, while work on the Pravara project is in progress. The Nira Right Bank canal project was sanctioned and commenced in 1012. In respect of size and cost it is the most important irrigation work of the protective class undertaken in India, The work involves the enlargement of the reservoir on Lake Whiting, which feeds the existing left bank canal, so that the capacity of the reservoir will be increased from 5,300 to 24,300 million cubic feet. A canal 100 miles long will be constructed and the waters will be distributed by 4 branches and 63 distributaries. The work, which is estimated to cost 257 laking of rupees and to occupy eleven years in construction, will afford protection to a tract in the Sholapur district which has the reputation of being one of the most liable to famine in the whole of India. Another important protective scheme the Gokak canal has recently been sanctioned by the Secretary of State. It con-templates the protection of some 493,000 acres in the Bijapur and Belgaum districts in British Mudhol, Jamkhandi, Sangli and Kurundwad at a cost of Rs. 197 lakhs.

Madras.—The Commission recommended the investigation of three very important works for this presidency; viz. the Tungabhadra project, and the Kistna and the Cauvery Recervoir projects. Detailed investigations have shown that the first could not be carried out snown that the first could not be carried out except at prohibitive cost and the project has accordingly been abandoned. The other two promise to prove productive. The plans and estimates of the Cauvery project, which will involve the construction of the largest dam of its kind in the world, have been approved by the technical chilerant of the Cauverness of by the technical advisers of the Government of India. The consideration of the project cannot, however, be further proceeded with until a settlement has been arrived at in respect of the claims of the Mysore Durbar in the waters of the Cauvery River. Plans and estimates for the Eistna Reservoir project have also been prepared and are being revised in the light of certain suggestions made by the Inspector General of Irrigation in India. A project to reclaim Divi Island, a fertile deltaic tract at the mouth of the Kistna, by means of flood banks and to irrigate this area by a pumping installation, which was approved by the Irrigation Commission, has been carried out. The work is now in operation.

United Provinces .- The Commission deline. ated in rough outline a project for the utilization of the waters of the Sarda river in Oudh for supplementing the supplies of canal systems which derive their water from the Ganges and Jumna rivers. The proposals were thoroughly investigated, and a project estimated to cost some of crores was prepared on the lines suggested by the Commission. In view of certain difficulties inherent in this scheme the Govern-ment of the United Provinces has drawn up an alternative project, estimated to cost Rs. 200

Bundelkhand, and the Mirzapore and Allaha-

the execution of the Ken and Dhassan canals, the Dhukwan Reservoir project, and many other smaller schemes. The result is that the trans-Jumna Districts of these Provinces which were previously so liable to famine, are now fairly well protected.

Central Provinces.—A number of small but very useful tanks designed to protect precarious tracts from famine have come into existence as a result of the measures taken Commission's recommendation. In addition, three large canal systems known as the Tendula, the Weinganga and the Mahanadi canals, which will derive their supplies from the rivers after which they have been named, have been sanctioned. The last named has already come into operation.

. Irrigation Dues.

The charges for irrigation, whether taken in the form of enhanced land revenue or of occupiers' and owners' rates, vary very much, depending on the kind of crop, the quantity of water required for it and the time when it is required, the quality of the soil, the intensity or constancy of the demand, and the value of irrigation in increasing the outturn. immediate vicinity of Poons a rate of Rs. 50 an acre is paid for sugarcane. This is quite an exceptional rate, it obtains over only a limited area, and is made practicable only because the cultivators, by high manuring, can raise a crop valued at nearly eight-hundred rupees an acrc.

bad Districts. The investigations have resulted price varies in Madras from Rs. 5 to 2, and in Bengal from Rs. 2-8 to Rs. 1-8 per acre. In both these provinces irrigation is practically confined to rice; in the Punjab, where this crop is not extensively grown, the rate varies from Rs. 7 to Rs. 3-4 per acre. The ordinary rate in Rs. 7 to Rs. 3-4 per acre. 100 of the principal the Punjab for wheat, which is the principal crop, varies from Rs. 4-1 to Rs. 3-12, and for Rs. 4-1 to Rs. 3-12, and for Rs. 4-1 to Rs. 3-10. fodder crops from Rs. 3 to 2-8 per nere. The average rate realised from major works for irrigation of all kinds is about Rs. 3-8 per acre, the provincial averages being Rs. 1-9 in Sind and Bengal; Rs. 3-4 in the Punjab; Rs. 4-8 in Madras, the United Provinces and the Bombay Deccan. The charges for irrigation may be taken as varying from 10 to 12 per cent. of the value of the crop, except in Bengal and the Bombay Deccan, where the average is little more than six per cent.

Canals and Navigation. Twenty years ago a great deal was heard about the desirability of constructing navigation canals, either in conjunction with irrigation, or for transport, pure and simple. The idea is now exploded. It received a certain stimulus from the unprofitable character of Indian railways, and the handsome earnings of the irrigation works; it received its quietus when the rallways turned the corner. Broadly speaking rt may be said that navigation and irrigation rights clash; navigation is not only costly, but it cannot be maintained during the season of short supply, except to the detriment of irriga-tion. Outside the deltaic tracts of Bengal, Orissa, Madras and Sind, navigable canals will never be of much use for the purpose of inland navigation. There is however considerable scope for connecting canals to improve the on other parts of the Mutha canal the rate varies from Rs. 40 to Rs. 12, and on other canals in the Bombay Deccan from Rs. 25 to Rs. 10 per acre. In Madras the maximum rate for sugarcane is Rs. 10, and in the Ponjab it does not exceed Rs. 8-8. The rate charged for now engaging the attention of the Government.

WELLS AND TANKS.

gation schemes. They are essentially exotic, the products of British rule; the real eastern instrument is the well. The most recent figures give thirty per cent.of the irrigated area in India as being under wells. Moreover the well is an extremely efficient instrument of irrigation. When the cultivator has to raise every drop of water which he uses from a varying depth, he is more careful in the use of it; well water exerts at least three times as much duty as canal water. Again, owing to the cost of lifting, it is generally used for high grade crops. It is estimated that well-irrigated lands produce at least one-third more than canal-watered lands. Although the huge areas brought under cultivation by a single canal scheme tend to reduce the disproportion between the two systems, it must be remembered that the spread of canals increases the possibilities of well irrigation by adding, through scepage, to the store of subsoil water and raising the level.

Varieties of Wells.

So far we have dealt only with the great irri- then allowed to fall into decay. These are temporary or knchs wells or they may be lined with timber, or with brick or stone. They vary from the kacha well costing a few rupees, to the masonry well, which will run into thousands, or in the sandy wastes of Bikanir, where the water level is three hundred feet below the surface, to still more. The means below the surface, to thin more and means of raising the water vary he equal degree. There is the picottah, or weighted lever, raising a bucket at the end of a pivoted pole, just as is done on the banks of the Nile. This is rarely used for lifts beyond fifteen feet. For greater lifts bullock power is invariably used. This is generally harnessed to the mot, or leather bag, which is passed over a pulley overhanging the well, then raised by bullocks who walk down a ramp of a length approximating to the depth of the well. Sometimes the mot is just a leather bag, more often it is a self-acting arrangement, which discharges the water into a sump automatically on reaching the surface. By this means from thirty to forty gallons of water are Wells in India are of every possible description. They may be just holes in the ground, sunk to subsoil level, used to a year or two and sunk to subsoil level, used to a year or two and sunsurpassed in efficiency. There is also the

Persian wheel, an endless chain of earthenware Bombay Presidency or the Perlyar Lake in pots running round a wheel. Recently attempts Travancore, holding up from four to seven have been made, particularly in Madras, to billion cubic feet of water, and spreading their pots running round a wheel. Recently attempts have been made, particularly in Madras, to substitute mechanical power, furnished by oll engines, for the bullock. This has been found economical where the water supply is sufficiently large, especially where two or three wells can be Government have systematically encouraged well irrigation by advancing funds for the purpose and exempting well-watered lands from extra assessment due to improvement. These advances, termed takavi, are freely made to approved applicants, the general rate of laterest being 64 per cent. In Madras and Bombay ryots who construct wells, or other works of agricultural improvement, are exempt from enhanced assessment on that account. In other provinces the exemption lasts for specific periods, the term generally being long enough to recoup the owner the capital sunk.

Tanks.

Next to the well, the indigenous instrument of irrigation is the tank. The village or the of irrigation is the tank. The village or the extremely precarious. So far from tanks being readside tank is one of the most conspicuous features in the Indian scene. The Indian tank may be any size. It may vary from a great them and they remain dry throughout the work like Lakes Fife and Whiting in the senson.

waters through great chains of canal, to the little village tank irrigating ten acres. They date back to a very early stage in Indian civilstation. Some of these works in Madras are of great size, holding from three to four billion cubic feet, with water spreads of nine miles. The inscriptions of two large tanks in the the inscriptions of two large tanks in the Chingleput district of Madras, which still irrigate from two to four thousand acres are said to be over 1,100 years old. Tank irrigation is practically unknown in the Punjab and in Sind. but it is found in some form or other in all other provinces, including Burma, and finds its highest development in Madras. In the ryotwari tracts of Bombay and Madras all but the smallest tanks are controlled by Government. In the zemindari tracts only the large tanks are State works. According to the latest figures the area irrigated from tanks is about eight million acres, but in many cases the supply is

CANAL COLONIES.

The canal colonies represent the extreme case of improvement in agricultural conditions effected by irrigation. In the Punjab uplands now watered by the Lower Chenab and Lower Jhelum Canals, irrigation has completely altered the face of the country, so that it supports in unparalleled prosperity a population numbering a hundred to every one of its former Povertex ticken determs while land once square miles, of which practicative whole poverty-stricken denizons, while land once refused as a gift sells with case at £15 an acre. refused as a gift sells with case at £15 an acre. The largest of the canal colonies, the Chenab Colony, on the Lower Chenab Canal, lies in the ttechna Doah, between the Chenab and Ravi Rivers, and has a total area of some 3,900 square miles. This area was until 1892 sparsely inhabited by normal pastoral tribes, whose total numbers were estimated at less than 70,000. Cultivation was rendered possible only by the construction of the Chenab Canal. As fast as the canal and its distributaries were constructed, the land (which was waste and As fast as the canal and its distributaries were-constructed, the land (which was waste and owned by Government) was allotted to various classes of grantees, the bulk of the grants being made to immigrant peasants, including men from the best agricultural districts in the Province. Since its foundation the colony has enjoyed remarkable prosperity. The no-made to whom a large portion of the land was mads to whom a large portion of the land was nilotted, though without any previous know-ledge of agriculture, assimilated the practices of their new neighbours with extraordinary success, and the whole colony is now as well cultivated as almost any part of India.

The Jhelum Canal Colony, on the Lower Jhelum Canal, occupies some 900 square miles of State land in the Shahpur District, and is

The Chunian Colony, a much smaller colony on the Barn Doab Canal in the Labore District dating from 1897, was returned in 1912 as having a total allottable area o ess than 130 square miles, of which practically the whole had been allotted. The population was 16,468 in 1901 and 43,494 in 1911.

Other old canal Colonies in the Punjab such as the Sohag-Para Colony in the Montgomery district, and the Sidhual Colony in the Mooltan district, and the Sidhuai Colony in the Mooltan district, had by the beginning of the period under review reached their full development and become 'merged in the surrounding districts. Before the end of the decade colonisation in the newer colonies also had been practically completed, and their administration had been almost completely assimilated to that of ordinary districts. to that of ordinary districts.

Colonisation has also been carried out on a considerable scale since 1901 on the Jamrao, Nasrat, and Dad Canals in Sind.

Schemes for colonisation on the canals included in the Punjab Triple Canal Project, the Upper Jhelum, the Upper Chenab and the Lower Barl Doab are now in progress have been prepared.

A concession of some importance was made to peasant colonists in the Punjab in 1910, when it was decided to allow them to purchase proprietary rights, on very favourable terms, in all colonies except the Jhelum Colony. The a more recent development Colonisation concession was made possible by the passing began in 1902, and was conducted on lines of the Alienation of Land Act, which secures similar to those adopted in the Chenab Colony, in another way the result that the former res-

Results of irrigation works in operation.

The following table summarises the results of irrigation works for all India during 1915-16 in comparison with those of the two previous years:—

	Capital out- lay to end of the year on works in operation.	Gross reve- nue during the year.	Net revenue during the year.		during the year, i.e., net revenue less interest	Area Irrigated,
	1(s.	Rs.	R∢,	Per cent.	Its.	Acres.
I.—Productive	55,69,45,166	0,66,27,995	4,50,42,321	8.11	2,60,30,150	16,639,600
II.—Protective	6,84,62,305	17,87,010	4,50,175	0.66	17,91,140	414,400
IIIMinor works for which capital and revenue accounts are kept (includ- ing works under construction).	6, 49, 12, 877	54,85,4e5 	20,42,600	4 ·58	14,69,555	2,072,000
V.—Minor works for which only revenue accounts are kept.		68,55,227	35,79,707	••••		2,514,400
which neither ca- pital nor revenue accounts are kept.		1,61,68,76\$	1.12,95,067	••••	****	0,474,200
Total 1915-16	69,00,50,349	0,68,74,815	0,36,09,882	(a) 7·00	2,05,99,565	25,144,000
Total 1914-15	01,00,46,560	10,02,80,767	0,20,34,340	(a) 7·64	2,84,72,727	25,578,700
Total 1913-14	61,21,21,482	9,16,71,550	0,00,70,070	(a) 8 · 2:	••••	24,913,400

⁽a) Percentage calculated on works of classes I, II and III.

Expenditure by the State.

The subjoined table exhibits the outlay incurred by the State during the year 1915-16 on a lasses of irrigation works:—

				<u></u>					Capital outlay	Minor additions maintenance, and working expenses (direct charges)
		Wo	rks u	nder cor	struction				Rs.	Rs.
oductive otective luor	::	::. ::.	::	••	•			• 1	27,00,667 50,50,550 7,78,818	
						Total		,	91,63,035	
roductive rotective Inor	::	::	Wo.	rks in 0;	peration. 	::	::	!	96,61,803 17,77,090 5,30,552	2,61,25,993 12,87,032 24,30,106
				•		Total		••.	1,10,60,451	2,38,43,151
orks und	er ela	ista IV	and	v	••					81,02,038
;					Grand	Total			2,11,32,196	3,10,45,789

[·] Inclusive of share of collection charges in the Civil Depts, in Madras, Bombay and Burna,

			Ir	Hg	nt is	πP	roj	ech:	c,							:
Franciscol recognistics of the control of the contr	nr	Mir and Antanton.		" Remandangueses,	Wheat, no and engar-	Men and with the	. Rim.	, nin,	Him, who as one and an	Proposed to feel Kan.	Bra canal and Ham- bra new Cir. Rice.	Wheat and barber.	Wheat, briley and	Switch and barier.	Wheat, barley and	
	:	:	:	:	:	:	:	•	_		:	:	:	:	:	
Districts Penedical.	:	:	:	:	:	:	:	and a	שניו שנים		٠,:	:	:	:	:	
4	:	:	:	:	:	:	:	2	hurt	:	:	:	:	:	:	
District	73,000 Blinklara	Chamba	15,500 Balazhat	toycoo Bilaspur	3071145	odjadat, 500,60	12,700 Dataging	73,000 Bhradam and Clands	Nagrut, Bhandara and	Chanda.	so,000 Bifa-pur	Loralai	Do.	લાખ	Zhob ·	
littigal ³ 9 ar.a. in act 4.	Dourse	35,000 Chanda	15,500	122,000	259,000 548,402	200'00	12,770	13,000	373,430	:	000'us	80,000 Loralal	41,000	218,000	209,961 Zhob	11,204,861 to
Estimated or approximate direct cost, in lakhs of rupees	<u></u>	e.	13	516	6	OI.	2	91-	116	89	151	33	13	09	83	5,081 to 5,150 11,504,864 to
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
atton of no	Protective	Do.	Do	Do.	130.	Do.	Do.	ϰ.	Do.	Do.	ĝ.	Productive	Do.	D0.	00.	Total
Name and probable classification of work.	Pangoli Naila tank-project Protective now called Itagh tank,	Deena Nadl Tank project.	Uskal & Cangulpara Con-	Hasdro river sohemo	Bina river scheme	Bahoribunds tank project.	Eallmati, now called	Lower Weingunga canal	Kanhan canal scheme	Prach ther schemo	Kharnng tank project	Anambar reservoir project. Productive	Tornal reservoir project	Camboli reservoir project.	Zhob project	
Proxince,						Central Provinces					ريسر		Baluchistan		ب. •	-

In the following elatement, to allowing the anglest senting theorem of the distribute whole Court the decade 1990-07 to 1915-16.

Administration.	16-16-07.	1007-63	157	5 fp.	100	16	; 14°4	1. 1511	-11
	1:	E.s.	1	٠,	1:-	- 10.0-10.00	1.,	11:2	
Bombay	7,03,925 }	15,23,002	27,1	בר כשו	27,72		24 ().)	53 27,00	57
restract	21,59,512	15,47,792	37,	15,412	11.77	5-5	5,14,\$	na a se	12
legavi	11,61,811	12,17,955	11,5	11.74	17, 1	£14	1200,0	S 10 40	.71
Biliag and Orleans .		**) 1	• •			4 .	· .,	
l'unjab	12,54,675	67,04,591	1,60.	37,971	1,10,51	1157	127,73,3	-1 (1 + 7, 61	51
United Provinces	50,10,512	07,12 516	24.	15,572	10,51	₹*** ****	21,21,1	33 j 23,63	.511
Burtas	12,70,074	11,75,53%	37,	4,144	1224	200	12,12,5	73	èu.
Baluchistan	20,010	24,671	100	1,100	: 2,61,	F74	5 4 4.5	12 2,11	,521
Ilajputana	£1,725	50,035		7,0-5	. 6,	en i	25,4	::	F41
North-WestFronti 1	4,70,07+	neacts:	17,1	12,035	16.51	164	21,15,5	11 1 11124	512
Province. Central Provinces	7,55,626	10,14 147	14	11,007	141-	125	10,1-6,5	15,02	e v
Total	1,78,75,931	1,01,00,423	2.19.	tole-u	4.53,50	,505	2,11,15,	2,55,51	
Province or Administration.	1012-13	1918-1	H.	121	15	19	15-16.	Turst,	
	Rs.	- 1		1:			Re.	114.	
Bombay	25,07,0	27 44,05	,245 ,	19,	53,134	4	1,15,656	0,53,07,0	1:0
Madras	7,59,5	93 ; 9,47	,103	16.	11,500	1	4,29,719	1,23,81,9	10
Bengal	1,00,0	60 2,07	,20%	7.	.10,613		011,02,0	\$2,42,1	577
Bihar and Oriesa* .	7,13,5	04 6,20	,001	4,	12,052		edest	15,41.5)24
Panjab	1,28,26,6	(0) 09,17	,267	73,	55, 169	4	6,61,211	10,00,00,0	ns
United Province.	24,17,2	10 25.78	1,046	26	31,626 ·	**	6,61,012	5,59,65,5	כניו
entica Province.				17.	.co,851	1	1,25,407	1,62,91,1	22
Burma	26,54,0	76 19,00	Spine [
Burma	26,54,3 2,83,9	1	0,105	1.	85,863		1,74,565	20,63,02	.03
Burma Baluchistan Rajputana	2,83,0	50 2,20		1,	5,843 5,843		1,74,865 178	20,63,9 1,83,0	
Burma Baluchistan Rajputana North-West Fronti Province	2,83,0	50	2,105			1			119
Burma Baluchistan Rajputana North-West Fronti	2,83,0	50 0,20 00	201,0 7,163	26	5,843		178	1,85,0	319 346

BUILDINGS AND ROADS.

of all the buildings required for the proper discharge of the functions of government in all life branches, and a large missing of uses of weits of public improvement, including lighthouses, harbours, embankments, boat bridges, and ferries, and the water supply and statistion of towns. The Bulldings and Roads brinch of the Public Works Department embrices all the operations of the Prysturing which are now edition naderthospeelalheads of Rallways and Irrigation. It lackudes the extension and maintenance of the roast system, the construction and or pate

The operations of this branch of the Department are classed primarily under the head of Civil Works, the expediture on which is exiraly mettrom provincial resources. The classification of this expenditure for 1011-15 under the various heads is relieved in the following tables.

7,176,750	ы :	:	Grand Total			The metanden of local Co	_,	:			local d	100	The exten
97,730	પ :	:	:	Expenditure la England	litare la E	Expen							
52,795	બ :	dal Funds	from Imper	Expenditure by Civil Officers from Imperial Funds	liture by (Expen	g	in additio	partment	e Civil De irtment.	tare by th orks Days	opendl blle M	 Includes expenditure by the Civil Department in addition to that by the Public Works Department.
230,474 7,936,018	230,022	847,25	1,127,924	203,105	619,002	582,661	090,540	020'020	825,305 360,803 920,090	825,305	601,601	:	Total
A.127,7:0	:	756,747	1,0<0,036.	:	010,833	507,711	661,327	831,581	364,270	775,738	520,551	:	Provincial
604,223	\$10,674	50,536	36,412	203,103	37,148	71,020	20,255	39, 109	2,533	10,001	020,27	:	Imperial
4	u	ч	W	ы	ы	બ	બ	u	니	ч	બ		
Test	fedla General.	Madra, Dombay, India	Madra.	North- West Frontice Pro- vince.	Punjsb.	Pro- vinces of Agra and Oudh.	Bihar and Oriera,	Dengal.	Durma, .team, Dengal,	Burma.	Pro- vinces and Berar.		
				-	-						Care Anna		

Posts and Telegraphs. POST OFFICE.

of India is vested in an officer designated Director-General of Posts and Telegraphs who works in subordination to the Government of India in the Department of Commerce and Industry. The superior staff of the Direction, in addition to the Director-General himself, Superintendente).

For postal purposes, the Indian Empire is divided into eight circles as shown below, each and the Central India and Rajputana Agencies.

The Postmasters-General are responsible to arrangements in their respective circles, with the exception of those connected with the conveyance of mails by railways and inland steamers which are entrusted to four officers bearing the designation of Inspector-General, Rallway white those in charge of the largest chars and also assisted by Deputy Postmastors-General. The eight Postal Circles and the jurisdictions of the four Inspectors-General are divided into Divisions each in charge of a Superintendent; and each Superintendent is assisted by a certain number of officials styled Inspectors or Assistant number of postal circles. Superintendents.

inspections, appointments, leave and punish- graph revenue is also credited. The Inland Tariff (which is applicable to Ceylon and Portuguese India except as indicated below) is as follows :--

The control of the Posts and Telegraphs | ments. The Presidency Postmasters, Indeed, have one or more Superintendents subordinate to them. When the duties of the Postmaster of a head office become so operous that he is unable to perform them fully bimself, a Deputy Postmaster is appointed to relieve him of some of them, and if still further relief is required, one or more Assistant Postmasters are employed, tors-General (who are officers of the rank of Postmaster-General), four Assistant Directors to the head officer are designated sub-offices and General (whose status is similar to that of are usually established only in towns of some General (whose status is similar to that of are usually established only in towns of some Deputy Postmasters-General), and two Personal importance. Sub-offices transact all classes of Assistants (who are selected from the staff of postal business with the public, submit accounts to the head offices to which they are subordinate, incorporating therein the accounts of their branch offices, and frequently have direct dealings with Government local sui-treasuries. in charge of a Postmaster-General:—Bengal dealings with Government local sut-treasures, and Assam, Bihar and Orissa, Bombay, Burma, The officer in charge of such an office works it Central, Madras, Punjab and North-West either single-handed or with the assistance of the mount. Frontier, and United Provinces. The Central one or more clerks according to the amount Circle comprises roughly the Central Provinces, of business.

Branch offices are small offices with limited functions ordinarily intended for villages, and the Director-General for the whole of the postal officers on small pay or of extrancors agents, are placed in charge either of departmental such as school-masters, shopkrepers, landholders or cultivators who perform their postal

duties in return for a small remuneration. The audit work of the Post Office is entrust the designation of inspector-general, denotes ed to the Accountant-General Mail Service and Sorting. All the Postmasters-General are provided with Personal Assistants, Department of the Government of India and while those in charge of the largest circles are is not subordinate to the Director-General in the Department of the Covernment of India and while those in charge of the largest circles are is not subordinate to the Director-General in the Department of the Covernment of India and While Theorem 1 is not subordinate to the Director-General in the Department of the Covernment of India and While Theorem 2 is not subordinate to the Director-General in the Department of India and While Theorem 2 is not subordinate to the Director-General in the Department of India and While Theorem 2 is not subordinate to the Director-General in the The Accountant-General is assisted by Deputy Accountants-General, all of whom, with the necessary staff of clerks, perform at separate headquarters the actual audit work of a certain

In accordance with an arrangement which Generally there is a head post office at the sub-post offices and a few head offices perform head-quarters of each revenue district and other telegraph work in addition to their postal work subordinate to the head office for purposes of accounts. The Postmasters of the Cate everywhere and especially in towns by opening cutta, Bombay, and Madras General Post. has been in force since 1883, a large number of cutta, Bombay, and Madras General Post a number of cheap telegraph offices working Offices and of the larger of the other head post under the control of the Post Office. The and the least of them exercises the same powers combined offices is borne by the Telegraph as a Superintendent of Post Offices in respect of Department to which the whole of their telegraph inspections, appointments, leave and punish.

	When the postage is prepaid.	When the postage	When the postage is insufficiently prepaid.
Not exceeding 1 tola	Anna.	unpaid.	1.0
Exceeding 1 tola but not exceeding 10 tolas	1	prepale genble 37).	deffel arreable ry).
Every additional 10 tolas or part of that weight	1	lo the	Double the ency (char on delivery
Book and pattern packets. Every 10 tolas or part of that weight	±	Double rate on d	Doub end on

every

ounce

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Г	r each tern pa	letter, cket, or	postcar parcel	d, bo to be	ok or regist	pat- ered 0	2
			ry Mor				
O	n any en	m not e	zecedir	ıp Re.	5	0	1
' 01	n any t exceedi	sum exe ng Rs. 1	meding O	Rs.	5 but	not 0	63
0	n any s execedit	um exe ng Rs. 1	reding S	Rs. 1	0 but	not 0	3
0	n nuy s	um exc	eeding	11s. 1	5 but	not	4

for each complete sum of Rs. 25, and 4 annas for the remainder; provided that, if the remainder does not exceed Rs. 5, the charge for it shall be only 1 anna; if it does not exceed Rs. 10, the charge for it shall be only 2 annas, and if it does not exceed Rs. 15, the charge for it shall be only 2 annas. it shall be only 3 annas.

On any sum exceeding Rs. 25 up to

exceeding Rs. 25

Rs. 600

.. 0

Telegraphic money order fees .- The same as relegraphic none; order fire the fees for ordinary money orders plus a telegraph charge calculated at the rates for inland telegrams for the actual number of words used in the telegram advising the remittance, according as the telegram is to be sent as an "Express" or as an "Ordinary" message.

In the case of Ceylon the telegraph charge is at the rate of Re. 1 for the first 12 words and 2 annas for each additional word. Telegraphic money orders cannot be sent to Portuguese

Value-payable fees.—These are calculated on the amount specified for remittance to the sender and are the same as the fees for ordinary money orders.

Insurance fees .- For every Rs. 50 of insured value 1 anna.

As regards Ceylon and Portuguese India see Foreign Tariff.

Acknowledgment fee,-Tor each registered atticle 1 appn.

The Foreign Tariff (which is not applicable to Coylon except in respect of insurance fees or to Portuguese India except in respect of insurance fees and parcel postage) is as follows :-

Lellers.

To the United Kingono [anna for each ounce or part of dom, other British Possessions. and that weight. including Egypt, the Loudan.

annas for first ounce and 11 To other countries. colonies or places. engna for additional or part of that

weight. Postcards Single .. 1 anna. Rerly .. 2 annas.

Printed Papers .- } unna for every 2 ounces or part of that weight.

Rusiness Papers.—1 anna for every 2 ounces or part of that weight, subject to a minimum charge of 21 annas for each packet.

Samples. 1 anna for every 2 ounces or part of that weight, subject to a minimum charge of I anna for each packet.

(The rates shown above are those chargeable when the postage is prepaid.)

Parcels.—(Prepayment compulsory.) The rates vary with the countries to which they are addressed. The rates to the United Kingdom

			Via Gibral- tar.	Over- land.
			Rs. a. p.	Rs. a. p.
Sot ove	er Sibs.		. 0 12 0	1 8 0
11 11	de .	• •	1 8 0	2 4 0
11 11	11 ,,	• •	2 4 0	3 0 0

Registration fee .- 2 annas for each letter, postcard, or packet.

Orders.-To countries on which Money money orders have to be drawn in rupce currency, the rates of commission are the same as in the care of inland money orders.

To countries on which money orders have to be drawn in sterling, the rates are as follows :-

						-	иния,
Not exce	eding	£1	l	• •	0.0	• •	3
Exceedin	g £1	bul	t not e	xcccding	g £2	• •	5
,,			,,	,,	£3		8
,,	£3	,,	"	,,	£4	• •	10
	£4	33	91	13	£5		12
	£5		•••	•			12 -

or each complete sum of £5 and 12 annas for To Ceylon and Portuthe remainder, provided that if the remainder does not exceed £1, the charge for it shall be a nnnas; if it does not exceed £2, the charge for it shall be 5 annas; if it does not exceed £3, the charge for it shall be 8 annas; and if it does not exceed £4, the charge for it shall be 10 annas.

Insurance fees-

"o countries other than those named below .. 3 annas for every £5.

.. 2 annaz for every Rs. guese India Mauritius, the Sey-

chelles, Zanzibar, and the British Last Africa. Uganda, aud Somaliland Protec-.. 4 annas for every RE. forstes

100. each Acknowledgment ec.--2 annas for registered article.

TELEGRAPH DEPARTMENT.

Telegraphs.—Up to 1912 the telegraph system in India was administered as a separate lepartment by an officer designated Directoriemeral of Telegraphs who worked in subordinaion to the Government of India in the Departnent of Commerce and Industry. In that year it vas decided to vest the control of Posts and relegraphs in a single officer as an experimental neasure with a view to the eventual amaigamaion of the two Departments.

In pursuance of this policy an experimental imalgamation of the two services was introduced in the Bombay and Central Circles from the 1st July 1912. The fundamental principles of this scheme which followed closely the system in force in the United Kingdom and several other European countries were that the traffic and engineering work of the Telegraph Depart-ment should be separated, the former branch of work in each Circle being transferred to the Postmaster-General assisted by n Postmaster-General and a suitable number of attached officers and the engineering branch being controlled by a Director of Telegraphs in charge of the two Circles. Subordinate to this officer there were several Divisional Superintendents who were assisted by a number of attached officers.

In 1914 the complete amalgamation of the two Departments was sanctioned by the Secretary of State and introduced from 1st April. The superior staff of the Direction, in addition to the Director-General himself, consists on the engineering side of a Chief Engineer, Telegraphs, with an Assistant, and a Personal Assistant to the Director-General. For traffic work there are a Deputy Director-General, with an Assistant and an Assistant Director-General. Circles the scheme which has been introduced follows closely on the lines of the experimental one referred to above. For telegraph engineering purposes India is divided up into three Circles, each in charge of a Director of Telegraphs. For Burma special arrangements were considered necessary and the engineering work is in charge of the Post Master-General who is a Telegraph officer specially selected for the purpose. These four Circles are divided into twenty Divisions each of which is in charge . of a Superintendent of Telegraph Engineering.

The telegraph traffic work is under the control of the Postmasters-General, each of whom is assisted by a Deputy Postmaster-General and a suitable staff of attached officers. The audit work of the Telegraph Department

is, like that of the Post Office, entrusted to the Accountant-General, Posts and Telegraphs, assisted by a staff of Deputy and Assistant Accountants-General.

Inland Tariff.—The tariff for inland telegrams is as follows :--

Private and State.

Ex-Ordi-Dress. DATY. Rs. a. Rs. a.

Minimum charge .. 1 Each additional over 12 0

Additional characs.

..8 annas. Minimum for roply-paid telegram

Acknowledgment of receipt each 100 words Multiple telegrams.

or less ... quarter CollationOne

telecharge for gram. R_{Σ}

οſ

For acceptance of an Express telegram during the hours when an office is closed.

If both the offiorigin ces of destinaand tion are closed. Ιſ one of only the offices is closed ..

Signalling by flaz or semaphore to or from ships-per ..8 annas. telegram

Boat hire actu-.. Amount

ally necessary

Copies of telegrams	, cach	100	4 anr	na¶,
	Press.			
	Ex- press.			dl- ry.
	Rs.	n.	R	. a.
Minimum charge	1	0	0	8) 5 .
Each additional 6 v	ords 0	2	0	1 } है
(Ceylon is not re Portuguese India is.)	garded	83	" Inl	and" but

Foreign Tariff .- The charges for foreign! Foreign Tariff.—The charges for foreign the end of the year the total staff numberral telegrams vary with the countries to which they 10,831. The total capital expenditure up to the are addressed. The rates per word for private close of 1916-17 amounted to Rs. 13,03,12,227, and state telegrams to all countries in Europe The net revenue for the year was Rs. 71,28,025. except Russia and Turkey are as follows :-

			Private.			State.	
				Rs.	a.	Rs.	۵.
Fit	Turkey	• •	 • •	1	6		• •
i	Indo	• •	 	1	4	0	12
,;	Eastern	• •	 	1	4	0	10

Growth Telegraphs.—At the end of 1800-07 there were 48,584 miles of line and 148,404 miles of wire and cable, as compared with 87,480 and 343,447 miles, respectively, on the 31st March 1917. The numbers of departmental telegraph offices were 240 and 5,070 connections were worked departmentally, respectively, while the number of telegraph offices worked by the Post Office rose from by Telephone Companies was 13 with 12,894 1,314 to 3,332 The increase in the number connections.

of paid telegrams dealt with is shown by the following figures :---

			1896-97.	1010-17
	Private		3,760,470	14,989,720
	Inland State		509,800	1,741,801
i	{ Prena		26,462	273,040
1	' Private		67,833	1,603,427
1	Foreign State		8,722	84,089
1	(Press	••	3,001	27,670
		-	5,077,584	18,719,836
	1			

The outturn of the workshops during 1916-17 represented a total value of Rs. 15,05,000. At the end of the year the total staff numbered

Wireless,-The total number of telegraph stations open for traffic at the end of 1916-17 was nineteen, viz., Port Blair, Rangoon, Diamond Island, Table Island, Victoria Point, Madras, Bombay, Eandheads, Calcutta, Karachi, Dellul, Simia, Allahabad, Lahore, Naspur, Peshawar, Quotta, Secunderabad and Maymyo.

The traffic of all kinds disposed of by the ten coast stations during the year involved 83,329 signalling operations in them.

Telephones.-On the 31st December 1916 the number of telephone exchanges established

HALL MARKING OF PLATE.

Various Trades Associations in India have at agement of trade in British territory and its different times urged upon Government that, in the jewellery and silver trades in India, locally-made goods in gold and silver are often sold in such a way as to constitute a fraud on the public; and that, in order to protect honest traders from unfair competition, it is necessary that a voluntary system of Hall-marking should that a voluntary space that the system would not only protect the public but would raise the standard of workmanship in India, and that although Hall-marking should be voluntary although Hall-marking should be voluntary in the first instance, it should be made compulsory eventually.

Objections to the proposal.—Government have so far thought it inexpedient to establish a system of Hall-marking, whether voluntary or compulsory, the main objections to the proposal being:

(1) That the legislation which would be required to introduce a compulsory system of Hall-marking would be of a character entirely opposed to the economic policy of the Govern-ment of India and would be vexatious and restrictive in operation.

(2) That the provisions of a law of this their trade, and would probably have to retire character would be constantly evaded, and that from business in favour of wealthier dealers in a result of its operation would be the discour- large centres.

encouragement in Native States,

(3) That a system such as could be instituted without inordinate cost was not wanted by the great majority of the trade.

(4) That there was a great danger of counterfeiting Hall-marks and their fraudulent application to inferior, spurious, or loaded ware.

(6) That there were only two Assay Offices in India, and under a voluntary system of assay, which could not be universal in its application, it was highly improbable that the fees received would cover the expenses of offices established for the purpose at other places, unless the fees were levied at such a rate as to constitute the imposition of a substantially heavy tax on the WAICS.

(6) That the outcome of the system would. therefore, be to inflict serious injury on workers in the metals in all places except in towns where the Assay Offices are located, most of these were poor artisans who could not afford the expenses of sending their goods to the Arsay Offices, and if they refrained from getting their goods stamped, they would be handicapped in their trade, and would probably have to retire

Trade.

power of the people and the grown of manuace-these grounds then the trade conditions of 1940-turing industy is expected to make the people 17 were dominated by the war. It is in the relationance from the shock of such famines as those tion of the trade of India to the war that we of 1890-97 and 1890-1900; but many of the find the most profitable line of study in considering tion works, such as tanks and wells, depend on the rains, for their replenishment, conclusions are indicated in the annual review tonsequently the trade of the year is mainly of Indian trade, by the Director of Statistics, determined by the rains, which decide the export Mr. G. Findiay Shitras, from which the following and the consequent purchasing power of ing article is mainly drawn.

The broad characteristics of the trade of India; the people. Another feature which arises from are familiar to readers of the Indian Year Book, these conditions is that the imports are mainly india is chiefly an agricultural country, for of manufactured goods and the exports of produce. The imports of manufactures in pre-war on agriculture for their means of livelihood, days chiefly came from the United Kingdom, Consequently the prosperity of the country is whose exporting power has been seriously diminaryly determined by the character of the monnished by the diversion of the energies of the export prophe for the way. soon rains. An area which grows larger every people to the war. A large part of the export year is projected by irrigation, and the extension in pre-war days went to the Continent of Europe, of these works, with the increased resisting and that market was closed by the war. On power of the people and the growth of manufact these grounds then the trade conditions of 1916-

THE TRADE OF THE YEAR.

The value of India's overseas trade in the sixty per cent. Imports, exports, and re-exports year ending 31st March 1917, as compared with of merchandise were also above the pre-war its immediate predecessor, showed a very quinquennial average. The actual value of the noticeable increase. Imports of merchandise trade as compared with that of the two preceding increased by over thirteen per cent., exports by years and the pre-war quinquennlum was as twenty-one per cent, and re-exports by nearly follows :-

	Average of five years 1909-10 to 1912-14.	1914-15.	1015-16.	1910-17.	Increase (+) or decrease (-) in 1916- 17 as compared with 1915-16 (per cent.)
Imports.	Rs.	Ra.	Rs.	Rs.	Rr.
Merchandise Gold Silver	1,45,84,72,000 32,78,41,000 10,83,26,000	1,37;02,90,000 10,70,36,000 11,06,63,000	1,31,96,62,000 5,24,42,000 6,61,10,000	13,33,79,000	+154·S .
Total Imports	1.89,51,39,000	1,59,69,9400,0	1,43,54,14,000	1.64,51,93,000	+14.4
Exports. In lian Merchandise ForeignMerchandise	2,19,49,73,000	1,77,48,50,000	1,92,53,43,000	2,33,15,36,000	, ,
(Re-exports) Gold Silver	4,61,93,000 5,02,07,000 3,67,55,000	2,24,94,000	6,00,08,000	6,18,000	00
Total Exports	2,31,71,03,000	1,81,80,50,000	2,04,80,00,000	2,45,82.83,000	+20
Total Trade	4,21,22,42,000	3,44,52,44,000	3,48,61,74,000	4,10,34,75,000	+17.7
	1,				•

The table shows the declared values of the instead of Rs. 150 erores, and exports would trade, but owing to the exceptional circum- have been Rs. 200 erores instead of 233 erorestances brought about by the war, the year's Thus the increase in the import trade on account trade cannot be judged by ordinary standards of higher prices was Re. 32 crores or 27 per cent. only, and to avoid the effect of the rise in prices and in the export trade Rs. 30 crores or nearly (which has greatly smollen the fluores), the 15 per cent. It is also possible to estimate how quantity of each article imported and experted furthetrade of the year was affected by a change during the year has, as far us practicable, been in volume. By comparing the value of the valued at the prices prevailing in the preceding year's trade, re-companies the prices of 1016-16.

Year. The result shows that, had the level with the actual value of the trade in 1915-16, of prices of 1916-16 prevailed, imports would the decrease in imports on account of the delign bean valued at meanly Rs. 118 crores crease in volume amounted to list, 14 is crores. and the increase in exports on account of the these articles of import and export as compared increase in volume to Rs. 10.8 crores.

Fentures of the year.—The monsoon was particularly good. It arrived early, it continued late, and its distribution was remarkably uniform. There was therefore ample moisture to mature the autumn crops and to provide a seed-bed for those crops which are harvested in the spring. The winter rains, notwithstanding beneficial showers received in places during February, were much below The crops were generally better than those of 1915-16 except in regard to sugar-cane. and the outturn was above the average of the pre-war quinquennial period, except in regard to cotton, jute and certain ollseeds, viz., rape and mustard.

Prices.-Wholesale prices in the principal markets throughout India showed at the end of March 1917, as compared with March 1916, a fall of three per cent. in food grains, a rise of four per cent. in ollsceds, and a rise of forty-five per cent. in cotton. The average price of raw jute in selected markets at the end of March 1917 was the same as in the corresponding period of the previous year. As compared with the level of prices at the outbreak of war. food grains were 14 per cent. cheaper, oliseeds 19 per cent, and jute 17 per cent, while cotton was dearer by 37 per cent. The index number of wholesale prices in Calcutta was 17 per cent. above the level of March 1916, and 44 per cent. above the pre-war level (end of July 1914). The rise was due not to an increase in food grains (cereals and pulses), which were actually six per cent. lower than at the outbreak of war but to imported goods, such as sugar, salt, cotton piece goods and metals, and also in some degree to the rise in the prices of such products, as saltpetre, shellae, indige, etc. The com-paratively small rise in prices since the outbreak of war in India, as compared with the rice in many other countries, is important from the point of view not only of the consumer in India but also of the consumer of Indian products ubroad.

with the pre-war year will be seen from the following index numbers :-

1913-14 1914-15 1915-16 1916-17. Imports 100 101 126 170 Exports 100 117

Two additional factors in the year's trade were the famine in tonnage and (in the last quarter of the year) difficulties connected with finance on account of the curtailment of Council Bills. At the close of the year freights, in consequence of this tonnage difficulty, rose to fourteen times their pre-war level. Rates in March 1917, to the United Kingdom, as compared with those in March 1916, were for cotton from Bombay, and wheat from Karachi higher by over 90 per cent., rice and jute freights from Calcutta were higher by 60 per cent., oilseeds freights from Bombay and freights for hides and skins from Madras were higher by over 50 per cent. The rates from Calcutta to Rangoon and the Far East, and from Bombay to Japun also increased, but not to the same extent as did freights to Western ports.

Internal Trade.—The activity of internal trade is illustrated by the favourable returns rail and river-borne trade, and by the increased railway earnings which were Rs. 00,48 lakhs in 1916-17, as against Rs. 64,18 lakhs in 1915-16. Bankers' Clearing House returns for the five chief ports were Rs. 800 erores in 1916 as against Rs. 563 crores in 1915, and Rs. 650 crores in the pre-war year 1913. The number of joint stock companies registered rose from 127 in 1915-16 to 176 and their authorised capital from Rs. 717 lakhs in 1915-16 to Rs. 17,08 lakhs in 1916-17. Indian textile industries which were probably more prosperous than at any time in their history, took a prominent share in the increases in capital, especially jute mills and cotton mills. Three jute mill companies working in 1ndia but incorporated in the United Kingdom with sterling capital were re-incorporated and registered in India with rupeo capital under the Indian to Companies Act. Tea companies and coal Imports and Exports.—Imports rose to Companies Act. Tea companies and coal a much greater extent than did exports. The mining companies also accounted for part of the average price of 61 articles of import based increase. The only noticeable decrease was on the declared values increased 35 per cent. In the case of railway and tramway companies, as against the preceding year, while the average. The iron and steel industry and also Bunks, price of 50 articles of export rose 14 per cent. is specially the Exchange Banks, showed good The increase in average prices in respect of results on the year's working.

THE IMPORT TRADE.

Year 1012-13

1014-15

1915-10 1016-17

1913-14 (pre-war year)

The value of the imports of merchandisc amounted to almost Rs. 150 crores or £100 millions sterlings, an increase of 13 per cent. over that of the provious year. This was not over that of the provious year. This was not only above the annual average of the quinquennial period immediately preceding the war, but also the highest recorded, except for the two pre-war years 1912-12 and 1913-14. The value of imported merchandse stated in the average of quinquennial periods as compared with each of the last five years, was as follows:— Rs, (lakhs)

Five years ending 1903-01 1908-09 , 1013-14 (pre-war year) ... 1916-17 ...

The main increases, as compared with 1915-16. were in cotton manufactures excluding grey piecegoods, motor cars and cycles, mineral oil other than kerosine, woollen goods, paper and 78,42 other than kerosine, woollen goods, paper and 111,85 hardware. Cotton manufactures recorded an 145,85 increase of no less than Rs. 9,79 lakhs, not-152,76 withstanding a decrease of Rs. 1,22 lakhs in

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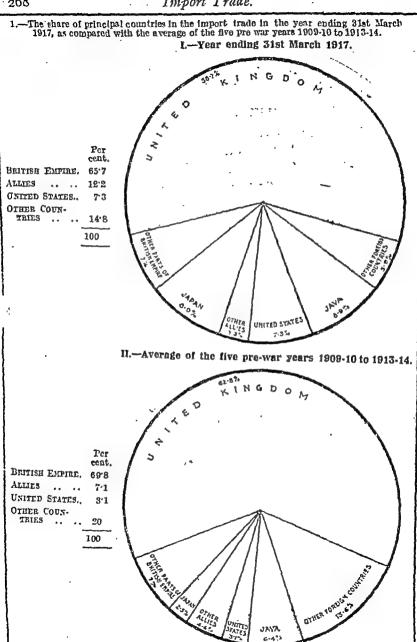
Rs. (lokhs)

101.00 183,25

137,93

131,99

149.62



grey plecegoods, motor cars and cycles Rs. 85 | Rs. 73 lakhs. On the other hand, the mot lakhs, paper and pasteboard Rs. 80 lakhs, noticeable decreases were in railway plant ar woollen piecegoods Rs. 78 lakhs, mineral oil, rolling-stock, which recorded a decrease other than kerosene Rs. 75 lakhs, and hardware Rs. 2,65 lakhs and sugar of Rs. 1,17 lakhs.

Chief imports .- The chief imports into India were as follows :-

						Annual average of five years 1909-10 to 1913-14.	1915-16.	1916–17.
,						Rs.	Rs.	Rs.
Cotton goods	• •	•••	••	••	::	48,40,85,000 3,77,18,000	39,59,85,000 3,67,70,000	49,01,57,000 4,04,89,000
Town and steel	••	••	••	••	• •	13,17,58,000 11,17,45,000	16,61,78,000 9,19,24,000	15,45,03,000 8,88,06,000
Machinery of all ki Mineral oil	inds, i	ncludi ••	ng bel	ting	••	5,80,04,000 3,72,03, 0 00	5,25,71,000 4,01,47,000	6,01,42,000 4,42,61,000
Silk, raw manufac Chemicals, drugs, e		• •	• •	• •	• •	3,94,54,000 2,12,73,000	3,84,18,000 2,87,27,000	3,94,80,000 3,50,87,000
The and the same	••	• •	••	• •	• •	3,17,04,000 2,05,10,000	2,38,11,000 2,11,27,000	3,10,87,000 2,80,91,000
Paper and pastebo Liquors	oard	••	• •	••	• •	1,27,07,000 2,02,46,000	1,44,24,000 1,87,34,000	2,33,10,000 2,30,01,000
Motor cars and cy Salt	cles	••			::	1,00,64,000 79,16,000	1,29,34,000 1,89,61,000	2,14,41,000 1,91,46,000
Railway plant and	i rollin	g-stoc	k	• •		6,10,94,000	4,21,85,000	1,56,86,000

Cotton Manufactures.—The imports of cotton manufactures amounted to Rs. 53 corres in the provious pear. This increase in value was due almost curing the year. These imports were 35-5 per cent. of the value of the total imports in 5106-17 as against 35-8 per cent. during the quinquennial period ending with the pre-war year 1913-14.

The imports of yarn declined by 27 per cent. The share of Japan increased from 17 per cent. to 13-6 per cent. to 13-6 per cent. In 1916-17 with the exception in quantity as compared with those of the previous year. Prices were high, the average declared value rising from 14 annas 7 pies per lb. to Re. 1 and annas 6. piecegoods 3 per cent. Coloured goods showed of the total imports of 291 million lbs. or nearly 83 per cent. were received from the United Kingdom, and over 4 million lbs.—chiefly of counts Nos. 31 to 40 and also mercrised cotton yarn—from Japan. If a comparison be made with the previous year the share of the United Kingdom in the imports to 83 per cent. to 18 per cent. to 83 per cent. and the share of Holland from 2.2 per cent. to 18-6 per cent. In 1916-17 with the exception in quantity as compared with those of of coloured goods, all descriptions showed a the previous year. Prices were high, the decrease in the quantity imported. The decrease in grey goods was 20 per cent. and in white annas 7 pies per lb. to Re. 1 and annas 6. piecegoods 3 per cent. Coloured goods showed of the total imports of 291 million lbs. 241 on increase of 27 per cent.

The imports for the past five years with the average of the two quinquennial periods ending with the years 1908-09 and 1913-14 are given below:-

	Grey (unbleached) millious of yards.	White (bleached) millions of yards.	Coloured printed dyed millions of yards.	
Average of five years ending 1908-09 " " " " 1913-14 Year 1912-13 " 1918-14 " 1914-15 " 1915-16 " 1916-17	 1,331 1,535°1 1,534°2 1,320°2 1,148°2	672-7 654-3 768-7 703-3 604-2 611-4 590-8	515·4 631·5 682·2 831·8 494·8 358·7 451·0	

This was, for hoslery, a record year so far as pre-war year 1913-14. alues go, and meant an increase of 121 per cent. of the imports 90 per cent. came from Japan and 8 per cent, from the United Kingdom. The share of Japan and the United Kingdom in the previous year was respectively 88 per cent. and 9 per cent.

Sugar.—Imports were on a reduced scale as compared with the previous year and especfally with the pre-war year and the pre-war quinquennial average. The imports of beet sucar, never very large in comparison with cane sugar imports, were nil. As against 1915-16 the decrease in the value of imported sugar was 7 per cent. but in quantity 15 per cent. Hardware.—The principal for the comparison he made with the pre-war in regard to hardware in 1916-17 were (1) the was 7 per cent. Dut in quantity to per cent. In regard to hardware in 1916-17 were (1), in 1916-17 were (1), in regard to hardware in 1916-17 were (1), in year 1913-14 the quantity decreased by as large increase in the import of enamelled much as 45 per cent. Nevertheless the total ironware: (2) the increase in metallamps; called in 1916-17 on account of the abnormal and (3) the decrease in buckets of tinned or main in 1916-17 on account of the abnormal and (3) the decrease in buckets of the imports prices was 3 per cent. above the value of the imports in 1913-14.

Java continued to be the principal source of previous supply. Of 377,700 tons imported from Java 176,700 tons were imported into Bengal, 107,400 tons into Bombay, 85,100 tons into Sind, 8,100 from the same source amounted to 11,575 tons. laking were imported during the year.

that of the previous year, and 65 per cent. year and over Rs. 28 lakhs in the pre-war year helow the average of the five pre-war years, of 1913-14.
The total value of these imports fell from Rs. The United Kingdom supplied 56 per cent., 150 lakhs to Rs. 8,88 lakhs or by 31 per cent., Japan 23 per cent, and the United States of Prices owing to complete failure of supply to America 10 per cent. keep pace with demand rose with very great-rapidity. On the average of the five years ending with the pre-war year 1913-14 the United Kingdom supplied 60 per cent. of the total imports, the United States of America 3.3 per cent, and the remainder came mainly ion Germany and Belgium. In 1916-17 the Jare of the United Kingdom was 98.7 per cent. and of the United States of America 27.5 per

Machinery and Millwork.—The imports machinery and millwork in 1916-17 do not afford an adequate means of gauging he prosperity of Indian industry since quanity figures are not given in the returns, and Try ngures are not given in the returns, and considerable allowance has to be made for the arge increase in prices. The year's imports it machinery of all kinds, including beiting, acreased by 14 per cent. to Rs. 6,01 lakhs. There was, however, a decrease of 27 per cent. Is compared with the imports during the premary year 1913-14. Cotton mill machinery necessed by Rs. 6 lakhs of the property of the premary prices of the premary prices.

Imports of cotton hosiery, chiefly under-were received from the United Kingdom, and rests and similar goods, rose from Rs. 64 5 per cent. from Japan as against 97 per cent. akhs in 1915-16 to Rs. 1,41 lakhs in 1916-17. and less than one per cent. respectively in the

Mineral Oil -The imports of oil from foreign countries consist chiefly of kerosine, lubricating oil, and fuel oil. imports of petrol from abroad are unimportant, Burma being the chief source of supply. total quantity of foreign mineral oil decrease from 06 million gallons in 1015-16 to nearly 88 million gallons in 1916-17, mainly owing to a great contraction in the imports of kerosine oll from Borneo. The value of the imports rose to Rs. 4,43 lakhs or 10 per cent. on account of the rise in prices.

galvanised fron. The total value of the imports of hardware amounted to Rs. 3,11 lakis, an increase of 31 per cent. over the imports of the previous year. The share of the United Kingdom declined from 66 to 59 per cent., while that of the United States increased from 42 to 15 ions into Madras, and only 400 tons into Burma. per cent. The imports of enamelled ironware Mauritius sugar is imported chiefly into western increased from Rs. 9 laklus in 1915-16 to nearly superstances. ports. Of 22,900 tons of Mauritius sugar 15,600 Rs. 20 lakhs, owing entirely to larger shipments fons or 68 per cent, went to Bombay and only from Japan. These figures, however, were In the pre-war year 1913-14, 131 tons were imports amounted to Rs. 27 lakbs. Almost from the same source amounted to 11.575 tons. The Indian production of cane sugar was estities 80 per cent. came from the United States and 14 per cent. from Japan. The share of than one per cent.

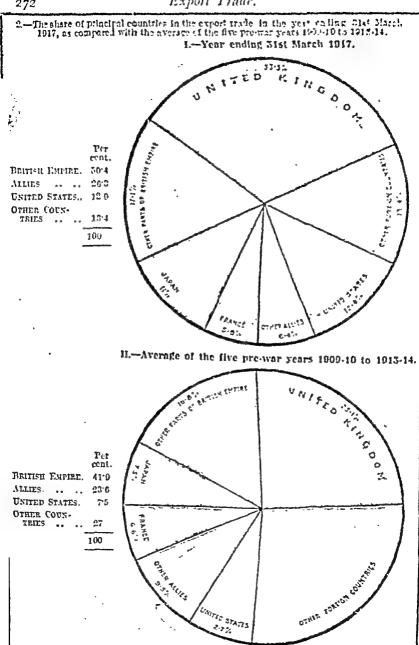
Indian production of cane sugar was estities 80 per cent. came from the United States and 14 per cent. from Japan. The share of the imports previously held by enemy countries than one per cent. fron and Steel.—The total quantity imports of cutiery were valued at Rs. 15 lakbs imported was 257,200 tons or 30 per cent, below as against nearly Rs. 11 lakbs in the preceding that of the previous year and a second se

America 10 per cent. of the imports. The value of electroplated-ware imported mas Rs. 43 lakhs, almost the same as in the preceding year. The principal source of supply was the United Kingdom.

Provisions .- The value of provisious imported amounted to Rr. 2.81 lakhs, an increase of Rs. 70 lakhs on the previous year. Of this increase Rs. 29 lakhs were due to increased quantities and Rs. 41 lakhs tolnereased prices.

Paper and Pasteboard.—The main characteristic of the year's trade was the increase in the total value which rose by 62 per cent. or Rs. 89 lakhs to Rs. 2,33 lakhs. The imports in the pre-war year (1913-14), it may be noted, were valued at Rs. 1,50 lakhs. Since the outbreak of war the trade in paper has been. diverted into new channels.

Liquors.—The quantity of liquors imported decreased, although the value of the imports necrosed by Rs. 9 lakes to Rs. 1.20 lakes. Of 4,458,000 gallons as against 4,826,0000 gallons his almost nine-tenths were imported into in the preceding year, and 6,400,000 gallons, bombay. Mucty-three per cent, of the imports the average of the pre-war quinquentium. The





The prosperity of the cotton industry was higher by Rs. 52 lakis, and would have amountone of the colet features of the year. The
ed to nearly Rs. 9.45 lakis instead of Rs. 8.95;
production of piece goods abroad reached record
in export of these goods abroad reached record
ingures. Stocks were below normal, piecs, was set off by an increase of Rs. 1.0;
lakis due to the larger volume of trade. The
were exceptionally high, demand owing to a
favourable monsoon was brick, and competition
was reduced almost to a negligible factor, the record exports of feather, and the large
especially in regard to the low grades of goods, quantities of raw and tanned hides and skins
which before the war were imported from sent to the United Kingdom and to the United
Germany and Austin-Hungary. At the end
of the year the position of the industry was
stronger than it had been for many years.

and the pre-war average.

during the pre-war quinquennium.

The exports abroad of food grains were nearly 2,915,000 tons and were larger than the exports of the previous year by 19.6 per cent. These exports, however were much below normal, being 34 per cent. less than the pre-war annas 7 pies in 1916-17 were 8 annas 8 pies per lib. These exports, however were much below normal, being 34 per cent. less than the pre-war annas 7 pies in 1914-15.

The year's trade in seeds was marked by a maintained. Nearly 1,555,000 tons were exports were valued at nearly and also by the high prices and strong demand Rs. 18,42 lakhs, an increase of Rs. 3,13 lakhs; for linesed in England. The value of the over the exports of 1915-16. This increase was accounted for by an increase of Rs. 2,81 lakhs; for linesed in England. The value of the accounted for by an increase of Rs. 2,81 lakhs; of Rs. 6,32 lakhs. The increase of Rs. 6,32 lakhs, and of Rs. 1,89 lakhs due to the greater.

of Rs. 4,62 lakks view was accounted for by an Cotton Yarn.—The increase in the exports increase of Rs. 3,60 lakks on account of higher Cotton Yarn.—The increase in the exports increase of Rs. 5,60 lakils on account of memor of cotton twist and yarn by Rs. 57! lakhs was prices, and of Rs. 1,62 lakhs on account of a accounted for by the rise in prices. The value greater volume of trade. In tunned hides and of the exports was nearly Rs. 7,50 lakhs and skins there was an increase of Rs. 2,40 lakis China was as in previous years, the chief imidue to higher prices, and Rs. 1,23 lakis due to porter of Indian yarn. The exports to Egypt, an increase in the volume of the trade. Nindty-Persla, the United Kingdom, Siam and also to nine per cent, of the exports of tanned hides Native States in Arabia except Maskat, were went to the United Kingdom which nearly much above the imports of the preceding year doubled its imports from India as compared and the procure average. with the pre-war average. For ten producers Cotton Goods.—The exports of cotton goods were valued at Rs. 5,26 lakhs of which pleegoods were approximately Rs. 5,06 lakhs. There was an increase of Rs. 2,59 lakhs in the exports of cotton pleegoods, accounted for by an increase of Rs. 2,32 lakhs due to an increase in the volume of the exports and of Rs. 16 lakhs due to an increase was more than double that in the preceding exported was more than double that in the preceding of that year. The preliminary extimate of year and nearly three times the average exports of uturn for India, based on returns received in during the pre-war quinquennium.

with the pre-war average. For ten product is with the season was, in spite of many adverse a condition, exceptionally satisfactory. The year was not so pro-perous as the preceding year, when a record outturn and a record price level were reached. Nevertheless owing to increase in the volume of the exports and of Rs. 16 lakhs due to higher prices. The quantity exported of that year. The preliminary estimate of year and nearly three times the average exports.

only Rs. 32 lakhs, due to a higher level of prices. Increase of Rs. 4,43 lakhs due to the greater volume of exports, and of Rs. 1.89 lakhs due to the greater volume of exports, and of Rs. 1.89 lakhs due to the precent, above those of the preceding year, were cluding re-exports were 48 million lbs. cs. 44 per cent, below the pre-war normal, and million lbs. less than the exports of the preceding year valued at Rs. 8.95 lakhs as against Rs. year and nearly 64 million lbs. less than the Rs.44 lakhs in 1915-10. If the prices had repre-war average. The exports were valued at mained at the same level as in the preceding Rs. 3,78 lakhs, or only one lakh less than the year, the value of the exports would have been exports of 1915-16.

DIRECTION OF TRADE.

In that the conflict of federal articles and official in the stages that have taken place in first each article in the contemporary desires in materials about that have taken place in first too to make the force place in first too to make the force passes and a greaten, which make with the preceding pass, and the Promote and the state of the st

		केंपर करा			Event	٠.	3.	or di Ti.	uo.
	Pres. 1888 There are a same are a	1245-14	1017 -17	Pro- WIT CATE	1915-16	Tule 13	Pre- war exer- ace	1015-10	1016-17
			Aliase forest					lessen, Person	
Arthoffice of the control of the file for even are con-	12.	2 4 4	15.7	27-1 16-6	55 17 (17.1	tn 12 9	46.6 13.8	43.1 13.2
Total Product of the		* ** :	10.7	41.0	55.4	50.4	52.0	60.4	58.8
13		*3	12.0	23.0	21.7	21,3	777	16.6	10
Triming everytes	34.5	## ,	12.1	20 9' 13 6	22.0	20.3	15 4 11.6	22.0	21.7
Tradition the second			43	35.1	41,6	40.6	17.1	::::::::::::::::::::::::::::::::::::::	18.73
Ichalanive et teate tioness leeff Totalanive i train labbe of Ropers	97,231 133,55%	57,531 131,94	tostr Ruge	1	- 1	160,591 210,59		210,578	•

tresoure. The United States is treated er a place has in the main been taken by Japan and montral, because that country was not a hellic by the United States. reget in the year. A creately was not a term by the times course, course, course in the year. A createful feature of A noteworthy change has been effected this table is that in 1946-17 is compared with the trevar guinquennium, trade with the exports. Before the war, the major portion interest kingdom and other parts of the littleb of our exports (filtre-like percent) was consigned interested. In the case of fortigm of our exports (filtre-like percent) was consigned.

year under review were drawn from the Empire. The decrease was due to the United Kingdom The decrease was due to the United Kingdom whose trade activities were completely dominated by the war. The total share of other remarkable growth in the trade with the United parts of the Empire remained unchanged, while States. Since the war the value of the Imports that of Neutrals and Allies notlevably increased, has increased by 144 per cent, and exports by Before the war nearly nine per cent, of our state of the increased by 144 per cent, and exports by Before the war nearly nine per cent, of our state of the increased by 144 per cent, and exports by Before the war nearly nine per cent, of our state of the increased by 144 per cent, and exports by Before the war nearly nine per cent, of our state of the increase of the

The iside rejers to member and excludes import trade was with our enemies. Their

Empire Increased. In the case of fortism in d to countries outside the Empire, on account countries, on the other hand, there was a decline of the while demand for India's ray and manufact of the my countries which in the present in indicating products. In the present quinquennant of the my countries which in the present into priod only forty-two per cent. of the export quinquennal period enjoyed nearly twelve trade was consigned to countries within the per cent, of the total readounce trade of India. Empire, In 1016-17 this percentage rose to Neutrals and Allics increased their shares in the over fifty mainly on account of the United total trade, and the place, previously occupied Kingdom, which took one-third of the total by enemy countries has been taken mainly by exports, as against one quarter in the pre-war Neutrals, and to a less extent by the United period. Before the war 13.6 per cent, of the Kingdom and her Allies. Share of the Empire.

Another outstanding feature is that the share the export rade with Allies has undergone no of the British Empire in the import trade was change. Neutrals, on the other hand, greatly less than in the pressure quinquennium. Never-lacrosed their shares, and the chief among year under review were drawn from the Empire.

Trade with Neutrals...

average. Iron and steel, motor cars, and and jute manufactures. The trade with Spaln mineral oil accounted for nearly two-thirds and Norway expanded, while that with Heliand, of the imports, while raw hides and shins to-Sweden, and Denmark declined. The exports gether with jute raw and manufactures accounted for eight-tenths of the exports. As com-Native States in Arabis, Sumatra, Indo-Chira, pared with the pre-war year, imports from and the Philipping shourd noticeable increases. Amorica of iron and steel increased by Rs. 2,02 Direct shipments to fulla were much greater lakis, motor cars and cycles by Rs. 1,23 lakhs than in 1915-10. The value of the total trade and mineral oil by Rs. 80 lakhs. There was a with South America was, it is interesting to rapid increase in the imports of dyes which note, prester than the average of the pre-war amounted to Rs. 42 lakhs in the year under quinquennium. The share of the trade with review. A striking increase, as compared with Neutrals in 1916-17 as compared with the pre-war year, was noticeable in the pre-eding year and the pre-war quinquennial exports of hides and skins (which increased by period was as follows:—Rs. 7,28 lakhs), and also in the exports of lac-

~	-	IMPORTS.			Exports.	
	Pre-war average.	1015-10.	1016-17.	Pre-war average.	1915-16.	1916-17
United States Java	3.1 6.4	6 10.2	7.3	7.5 1.2	10.8	12.0
China Persia	1.1	1.5	1.1	3.8	2.7	2.4 1.3
Turkey, Asiatic Spain		.3	.1	1.1	1.1	1.1
Holland		.0	.7	1.5	:1	::
Sweden Argentine Republic		.0	.6	.1	1.6	j:1
Cuba Others	i.7	2,2	i.9	3.2	a.5	4.1
Total	14.5	23	22.1	20.0	22.0	26.3

FRONTIER TRADE.

Frontier trade in 1916-17 was greater than that of the preceding year, the pre-war year, and the pre-war quinquennial average, as will be seen from the following table which includes both merchandise and treasure:—

·					Імговтя.	Exports.	Toral.
				1	Rs.	Rs.	Rs.
Average of the five to 1913-14	pre-wa	rye	ara 190	9-10]		
		•	• •		10,30,63,000	8,59,25,000	18,90,11,000
1913-14 (pre-war y	car)	• -	••		12,01,87,000	9,42,26,000	21,44,13,000
1914-15					11,41,94,000	0,49,45,000	20,01,39,000
1915-16					11,90,47,000	0,50,17,000	21,40,64,000
1916-17					12,86,85,000	10,03,48,000	23,50,33,000

. 1

The firste to easily dogs with adjoining couns per cent, more than in the preceding year, and

value of Actal's trade, excluding treasure, most noticeable decrease in the year's frontier was Be, 6,61 lable, almost on the level of the trade was in the trade between Dir, Swat, and treestreyear, while that with the Shan States. Bajaur on the one hand, and the districts of increased to us. 6.24 lab befrom Rs. 4.27 lab by largers and Pechawar of the North-West The trade with Afghanistan, excluding Frontier Browness on the other. The trade trosure, was valued at Rs. 3.44 labbs or a decreased from Rs. 1,44 labbs to Rs. 50 labbs.

The trade is easily don with adjoint, a count per cent, more than in the preceding year, one that a far i fredly of epiperimisted all per cent, more than the preceding year, one that a far i fredly of epiperimisted all per cent, more than the preceding year, one fills a far in the first country from the first country for the first country for the first country for the first country for a first country for the first country

INLAND TRADE.

The total imports and experts during the The pre-warquinquennial average was 7,205,000 imports into the ports from apcountry of wheat, 125,000 lbs. of smoking tobacco. imperts into the pairs rape and mustard reed. Hallway earnings were Rs. 60,48 likhs, as were greater than these of the preceding year, lagainst Rs. 64,18 lakhs in 1015-10, an increase while the imports of raw cotten, raw jute, rice, of Rs. 5,30 lakes or 8 per cent. The earnings and ten declined. The bulk of the trade in the principal railways which contributed to

to 10,231,000 lbs. in the pre-nar year 1013-14.

year are extimated at 6° million tons, valued at the. In the year under review the exports its 10.14 erore as against last year's actuals, were 10.632,000 lbs, a record figure. The cir. 65 million tens valued at its, 8,96 erores output of the tobacco factory at Monghyr The pre-mar quinquential average was mearly (which commenced business in 1903) was in the co-co-color valued at Rs. 8.10 erores. The year under review 2,400 million eigarettes and

and tea declined. The bulk of the trade in of the principal railways which contributed to wheat was, as usual, with Karachi, in lineed libis increase were as follows, the figures in and raw cotton with Bombay (port) in rape brackets being the caraings in the preceding and mustard reeds and line with Calcutin, brackets being the caraings in the preceding cotton pricespoods, cost, sugar, fobacco, raw cost: last indian Rs, 10,05 lakhs (Rs, 8,41 lakhs); and dressed hidrs and skins showed, it may be forced in the process of the arrival lakhs); Bombay, Baroda and Central India nito the ports as against the preceding year, Rs, 7,27 lakhs (Rs, 6,04 lakhs); Bengal Nagpur and the pre-war quinquennial average. and the pre-war quinquential average. Rs. 5,08 lakks (Rs. 5,04 lakks); Madras and The recady expansion of the exports of manuscript Southern Mahratta Rs. 4,58 lakks (Rs. 4,16 lactured tobacco other than elears from the lakks); Last in Bengal Rs. 3,00 lakks (Rs. 3,48 Bhar block is interesting. The exports which liakis); and the Southern Indian Railway Rs. 3,20 amounted to 1,755,000 lbs. in 1007-08 increased lakks (Rs. 2,00 lakks).

CUSTOMS REVENUE.

The gross Sea and Land Customs Revenue! (excluding Sait Revenue) amounted to Rs. 12.60 which stood at 5 per cent. ad raiorem since its lakhs, as against Rs. 8.81 lakhs in the preceding imposition in 1804 was raised to 74 per cent. year, and its. 0.81 lakes the pre-war quinquen- with effect from March 1016. In addition to nial average. The increase was the result of articles grouped under the 71 per cent. ad the changes in the rates of duty by the amend-valorem rate, are those free of duty, liable to ment of the Indian Tariff Act in March 1916, duty at sp. cial rates and at 2 per cent. Gold, and in March 1917. The most important living animals, raw cotton, raw wool, raw hides increases were in sugar (+ Rs. 1,29 lakhs), raw and skins, cotton twist and yarn, cotton machimaterial (+ Rs. 23 lakhs), raticles of food and nery, quinine, certain agricultural requisites drink (+ lis. 20 lakhs), and tobacco (Rs. 18 lakhr), and a few other articles are admitted free. while sliver bullion and coin recorded a decrease of over Rs. 80 lakhs, and petroleum of over Bs. 26 lakhs. The export duty on rice increased on silver manufactures at 15 per cent. (but at by 14 per cent. to approximately Rs. 87 lakhs. 10 per cent. from March 1917), coal 8 annas a The export duty on raw and manufactured ten, arms and ammunition at 20 per cent.,

The general tariff rate on imported articles duty at sp. clai rates and at 21 per cent. Gold, living animals, raw cotton, raw wool, raw hides and skins, cotton twist and yarn, cotton machi-Special duties are levied on sugar at 10per cent., on sliver bullion and coin at 4 annas per oz., by 14 per cent. to approximately Rs. 87 IARIBS. To per cent. The export duty on raw and manufactured ton, arms and ammunition at 20 per cent. Jule amounted to Rs. 1,18 lakhs, while that on cigars and cigarettes at 50 per cent. and peter realised over Rs. 42 lakhs. The excise troleum one anna and six pies per Imperial duty on cotton manufactures decreased by 0 gailon (with an import duty of 6 annas per per cent. to approximately Rs. 45 lakhs.

[Some of the content of

also on a few other articles. Iron and steel, ? machinery except that for cotton splanler and machinery except that for cotton splanler and servine attacks are charged at 21 per cent, ad rederent. By the amendment of the Tailli in Maria 1997 the duty on cotton goods is nex 71 per cent, ad rederent. The expect duty imposed in Maria 1916 on raw and manufactured into for raw into per bole at 400 lbs, with a special rate of Rs. 1-4-0 per bale on cuttings, and at Rs. 20 per ten for sucking cools and Rs. 32 per ten on hessians. The expect duty ontex per content of the Victoria rate of Rs. 1-4-0 per bale on cuttings, and at Rs. 20 per ten for sucking cools and Rs. 32 per ten on hessians. The expect duty ontex is Rs. 1-8-0 per 100 lbs. The telectors collected by Government since 1904 on behalf of the teat Mirey, the Babrella Islands, and Crylon, and by Government since 1904 on behalf of the teat Mirey, the Babrella Islands, and Crylon, and machinery except that for cofton splonler and I be resized to office the policiful features of by Government since 1901 on behalf of the ter Africa, the Bahreln Islands, and Crylon, and Industry for the promotion of the sale of Indian of placer, coined in the Benday Most to

the number and tonnage of a coule that entered They reveal the secret of the extraordinary preceding year, and 127,00,000 the pre-war high freights referred to in previous chapters | quinquential average. per cent, as compared with the average of the per come as compared with the average of the pre-war quinquennium, and 1.6 per cent, as temporary appetendent of Indian compared with the preceding year. The main commissioner in London was man

in the way of exporting good by boundaries, London. These properts have been accommissed the imports into India were only London. These properts have been accommissed to general information. noticeable change in the sources of these imports Before the war, gold was imported at certain store i the a setance of Indian expert trade. Exchange Banks and bullion brokers from the search for tresh marks to fer indian product and United Kingdom, and of the Bank of England. The shipments from Hocated in the City so that he may be in direct China were also in buildon, while those from and immediate touch with merchants and officer and United States were abnormally high, since the United States were abnormally high, since the United States rarely ships gold in any quantity direct to India. The exports out of content of the Comparatively unimportant, and were comparatively unimportant, and were chiefly in the form of sovereigns to meet. the requirements of troops in Mesopotamia and on deputation to Russla, France and Italy, with Egnyt. The absorption of gold coin and gold in view to requesting companied relations, he-

Shipping.—The tables of shipping showing feature of the year's trade was the gap letwern The Balance of Trade -An Important the number and command in reasons that entered exports and imports. This arrounted to over and cleared during the year are of great interest. Expospriors against nearly 540,000,000 in the

Trade Commissioner .- In 1913 Commissioner in London was made as an per cent, as compared with the pre-war as tracts. In the pre-war years clearances of British ton normal markets for which were cut on owing to nage were 70 per cent, and of foreign tonneg, 21 per cent, of the total. In the year under the wer. The appointment was held for a short latter 19 per cent. The charances to the United Kingdom, Japan and the United States. destrability of establishing the post on a per-Coin and Bullon - The flow of treasure into and from India presented some very trade should be directly represented in London review. As a result of the dilibituith's placed in the way of exporting gold by belligerent countries, the imports into India were only and are now appointed for the preparation of the prepar

The principal function of the Trade Commis-United Kingdom, and soverigns in transit establishing new commercial connections within from Australia or ready for export from Egypt the Empire and will help Indian Industrialist were frequently discreted to today. The transit is their countries recognized in their countries recognized in their countries. from Australia or ready for export from Egypt the Empire and will help Indian Industrialist were frequently diverted to India. The 1 inted on their enquirles regarding inachinery and the chief sources of suppit. In 1216-17, however Natal, China and Japan were the chief sources of consignment. The shipments countries of consignment. The shipments the control of the Board of Trade, and will be a source of ready information to the Bank of England. The whole of this particular to the public on Indian commercial of the Bank of England. The shipments from control of the Bank of England. The shipments from control of the Bank of England. The shipments from control of the Bank of England. The shipments from control of the Bank of England. The shipments from control of the Bank of England. The shipments from control of the Bank of England. The shipments from control of the England of the shipments from control of the England of the shipments from control of the Bank of England. The shipments from control of the Bank of England. The shipments from control of the Bank of England of the shipments from control of the Bank of England. The shipments from control of the Bank of England of San

che requirements of troops in Mesoporania and gold expert. The absorption of gold coin and gold a view to promoting commercial relations bebuild was Re. 809 lakhs or £5,393,000. This figure, although greater than that of the preceding year, was still much below the average of the pre-war quinquennial period.

On deputation to Russia, France and Atlant, when the promoting commercial relations between India and those countries, has been applied to the pre-war quinquennial period.

Trensure.—The private imports of gold form of coined gold. Japan received a consign-bullion and coin showed a very large decrease ment of Rs. 3,18 lakis and the United Kingdom from Rs. 28,23 lakis in 1013-14 and Rs. 10,70 of Rs. 3,04 lakis. Government imports were lakhs in 1914-15 to Rs. 5,24 lakhs only in 1915-16. The Imports decreased by more than half, owing to the restriction on the movement of gold. The United Kingdom contributed Rs. 2,87 lakins, Australia Rs. 1,46 lakins, and Aslatic Turkey, Aden and China about Rs. 26 lakins each. The United Kingdom contributed Rs. 2,87 lakhs; only thrice in the previous 40 years has Australia Re. 1,46 lakhs, and Aslatic Turkey, Aden and China about Rs. 26 lakhs each The exports on private account amounted to Rs. 6,30 (23,000,000 as against £12 millions in 1914-15, lakhs, as against Rs. 2,25 lakhs in 1914-16 and Rs. and £23 millions in 1913-14. The net absorption was only £3,000 lakhs in 1913-14. Of the total exports 48 ton during the past forty-three years ending per cent. was in bullion and 62 per cent. in the 1915-16 amounted to no less than £232 millions.

valued at Rs. 23 lakks, but there were no exports on Government account. There was thus a total net export of gold amounting to Rs. 1,11

ABSORPTION OF GOLD.

(In thousand of £ sterling.)

	-		AVE	TAGE OF	5 YEARS	ENDING.		
	1873- 74.	. 1878- 70.	1883- 84.	1888- 89.	1893- 94.	1898-	1903- 04.	1908-
1. Not annual addition to the stock of the country. 2. Progressive total of additions to the stock 3. Heldin mints and Government Treasuries and Currency and Gold Standard Reserves 4. Net annual variation in item 3. 5. Not progressive absorption 6. Absorption of the year	1,000 1,000 1,000 1,000	4,000	,	28,000	40,000	400 400 400 46,200	72,400 8,400 1,800	4,400 2,200 106,400
	1909-	1010-	1911-	1912-	1913-	AVER- AGE OF 5 YEARS ENDING 1913-	1914- 15.	1915-
1. Net annual addition to the stock of the country. 2. Progressive total of additions to the stock 3. Heldin mints and	16,000	18,000 162,000	27,000 180,000	25,000 214,000	18,000 232,000	20,800	7,000 239,000	1,600 210,600
G o v e r nment Treasuries and Currency and Gold Standard Reserves 4. Net annual varia- tion in itom 3. 5. Net progressive absorption 6. Absorption of the year	6,000 6,000 138,000	156,000	16,000 10,000 173,000	20,000 4,000 104,000 21,000	-5,000 217,000	12,000 3,000 175,000	10,000 5,000 220,000 12,000	8,000 2,000 232,000 3,000

The imports of Government of India rupees were valued at Rs. 35 lakhs and the exports amounted to Rs. 1,79 lakhs, of which Rs. 80 lakhs were on Government account to meet special demands in the Persian Guif, in Egypt (where the rupee has temporarily been made legal tender), in East Africa, and in Aden. Exports of rupees also took place to Arabia, the Bahrein Islands, Ceylon and the Straits.

COMMERCIAL INTELLIGENCE SYSTEM.

of a Director of Statistics.

As now constituted the Department serves on hierard from him with the fire purpose of a Central Remainst which it figs, demission been the purpose of a Central Bullian at Vinta Berry, amounted Art.

mation on subjects of commercial liberal is foot in the purpose of the purpose of the pulling and discontinuously notions. The purpose of the pulling art posted to engine a five of the engine a five of the control by the first property of the control by the first purpose of the control by the first bulliand at 1. Council Bours Greet, Calculus, complies and public a poster of the first bulliand the headquarters of the hip electrolication.

The despite the two two each district as and public are each expension of the bull of the control of t intended for griefal publication is printed in the latest and a latest account representation in printed in the latest account of the latest account of the "Indian Trade Journal of the superfronting of the latest account of the "Indian Trade Journal of the latest account of the latest United Rington and eleculope which affects. Section Laboratory Section, deals with the

Museum contains samples of such costs of Indian . Director of Statistics - manufacture as have been received for exhibit Conneil Street, Calculus.

The Commercial Intelligence Department, then for the with interesting as to price and India, was founded in 1993 under the controllate action of the monetations and remote of a Universe General of Congressial lith like the arm to the conflict have been notified given. Its primary only it was the amply to a couped need existenced. Order 1994s are the public of such information as would storm, as which the clothest restrict two to reduce the public of such information as would storm, as which the left is not be regarded. He completion and every nearly short the relative comprises a real and the great storm and the completion and less of my half-attack comprises a real and they be such that the first half of India have been marked not by the best of a new time or, which is also been if a partment of Statistics, India, under the controllat, compatible storms, which is also been in a partment of Statistics, India, under the controllat, compatible storms, where the open partment of Statistics, India, under the swelter 1. Council Meses Places, Caracta, see length Fr. to the state of the state of the Second to first

Indian Interests, (b) Summaries of the 1 action cooperated to use of biblion, poly to of continuous and other trade reports, see little those of put that, one, it or of and the early Abstracts of the proceedings of the author Section II deals with Tiers, Exter Lies of Chambers of Comperes in 1 dia, it's Abstracts Training, 5 ether III with War. Staffeling of crop reports and for easts. Is these majors Asid in IV Indicas, Asimplification, I directional orders, communiques and other notices all other and visal statistics, historie V Ball and Biser trade, and (A anonymous enquires for elections. Bore Trade; beet in VI, statistics relation to trade introductions. It also contains analyses the Injury as a Friedler trade of Renard; bore of Indian tractions. It also contains analyses the Indian and French to of Reards Second Indian tractor from the Indian from the Indian tractor from the Indian from the Indian tractor from the Indian Indian Indian tractor from the Indian India

Director of Statistics :- G. Findlay Shirtas, h.

ADULTERATION OF PRODUCE.

long memorandum to Chambers of commerce chare, if steps are not taken to effect a radical in India on the subject of the adulteration of improvement in the reputation which, the Indian produce. This memorandum said.— Government of India fear, some of her products Cotton is still watered; just is still watered; have only too justly merited. groundnuts, hides, indigo, oils are freely adultation of the lacts conserment.—After review-terated; this at least is common knowledge, ling the facts conserning the adulteration. It is unnecessary to dilate on the loss to Indian of what, cotion, jure, leather, kemp, and trade which this practice of adulteration must bees wax the measuratum continueds—involve, but it appears to the Government of It will be seen from the preceding sketch of India to be specially important at the present previous discussions on this subject that the time to endeavour to force attention on the Government of India have been consistently matter. It seems reasonable to suppose that opposed to any attempt to next the cell by the present war will be followed by a period of legislative measures. They have held the view keen compellition among industrial nations for that any such measures would be extremely

In August 1917 the Department of Commerce, that India will be able to entitie and retain and Industry, Government of India, lessed a the extended markets which should fall to hel

keen competition among industrial nations for that any such measures would be extremely materials of all descriptions and for products difficult to carry into effect, would rectourly which India should be in a specially favourable hamper trade, and would probably, in any position to supply. But it cannot be expected case, prove intifectual as a practical remedy

They have maintained the opinion that the S. P. Sinha, in the Bengal Legislative Council, proper agency for dealing with these abuses to amend the Calcutta Municipal Act, with is the trade it elf, and that no intervention on special reference to give adulteration. Sir the part of Government is desirable. To these Satyendra, in introducing the Bill, said that the part of Government is desirable. To there the existing law had failed to check the practice views they are still inclined to adhere. At the the existing law had failed to check the practice views they are still inclined to adhere. At the the existing law had failed to check the practice and stilling adulteration of adulterating gives and scale of the evils resulting the charteness and would be clad to co-operate, given in Calcutta. In view of the evils resulting on the subject, and would be glad to co-operate, chee in Calcutta. In view of the evils resulting if further discussion should show that any action from widespread adulteration it was considered on their part is at once feasible and desirable. It seems to them, however, more probable that the situation could be most ratisfactorily dealt the situation could be most satisfactorily dealt with without any intervention on the part of Government. If the leading exporting firms of any particular commodity in India would arrange with their leading buyers that the latter should insist on freedom from adulteration, an improvement could probably be more readily effected by this means than by any action on the part of Government. This would seem to be the most fruitful line of attack, but it has also been suggested that Chambers of Commercial India might organise some system of certificain India might organise some system of certifying to the purity of products before export. This suggestion seems worthy of consideration.

Adulteration of Ghee.—In the autumn of 1917, considerable feeling was evoked in Calcutta by the practice of adulterating ghee. For instance, a panchayat of Marwaris excom-municated five give dealers, in one case two partners were excommunicated for one year and ordered to pay Its. 1,00,000 towards the purchasing of grazing ground for cattle. In another case a father and son were fined Rs. 25,000 and in other cases the fines ranged from Rs. 500 to Rs. 1,000. Feeling waxed so strong that a deputation asked the Governor

the existing law had failed to check the practice necessary that more stringent measures should be taken to provide for the purity of the article and to penalise the manufacture, storage, and sale of ghee that was adulterated. In this Bill a definition for adulteration had been introlluced by which ghee must not consist of any article which was not extracted from milk. The penalty imposed under the Bill for offences ranged from a fine of Rs. 200 to Rs. 1,000. The Bill was taken up for consideration after suspending the rules of business and passed.

Burma Ghee Adulteration Burma a similar Bill was passed in October, 1917, when the mover of the Bill explained that all that the Bill proposed was to ensure that a purchaser who desires to obtain ghee should be entitled to receive an article which was derived exclusively from milk. If purchaser desired a cheaper substitute, the Bill did not prevent him from obtaining it. It did, however, prevent him from receiving such substitute under the impression he was purchasing ghee. It was not anticipated that the Bill would effect any dislocation of any established trade. It would be necessary for manufacturers and dealers of mixtures which had hitherto been sold under the name of ghee to arrange to sell such mixture under distinctive names in order that the to move the Government of India to pass an customer might be fully aware he was not ordinance, pending legislation, penalising both the adulteration of ghee and the selling or stocking of adulterated ghee. Shortly afterwards these mixtures as ghee would be prevented an Emergency Bill was introduced, by Sir without any loss or dislocation of industry.

THE CIVIL VETERINARY DEPARTMENT.

To the Civil Veterinary Department, which originated in 1892 as an expansion of the military horse-breeding department, is entrusted the performance or supervision of all official veterinary working. Ledia other than their of the veterinary work in India, other than that of the Army. Its duties fall under the main heads of cattle disease and cattle breeding, horse and mule breeding, and educational work in veterinary colleges.

In 1905 and the following years both the superior and the subordinate establishments were considerably increased; but the strength of the subordinate staff in most provinces was still

far short of the sanctioned establishment, the ing snore or the sanctioned establishment, the demand for veterinary graduates being greater than the supply, and the European staff remained small in proportion to the volume of work calling for attention. The post of Inspector-General, Civil Veterinary Department, was abolished with effect from the 1st April 1992, the duties being transforred results. ras abousses with each flow the late April 1912, the duties being transferred partly to local Governments and partly to the Agricultural Adviser to the Government of India. Of late years small veterinary departments, modelled on the Civil Veterinary Department, were started in several native states.

INDIAN COTTON DUTIES ACT.

to 1891 when the embarrassment caused to the finances of India by the fall in exchange drove the Government of India to the necessity of adopting measures to increase their sources of revenue. Among these measures was the re-imposition of the Customs Tariff which had been in force prior to 1882 subject, however, to this difference that cotton yarns and fabrics, which had formerly been subjected to an import duty, were in 1891, excluded from the list of dutlable prifcles. This partial re-imposition of import duties had been recommended by the Herschell Commission which, in reporting in 1893 on the carrency question, had favoured this method of adding to the revenue as being the least likely to excite opposition. In point of fact, however, this recommendation which was carried into effect in the Indian Tariff Act of March 1891 gave rise to very marked opposition. In support of their policy the Government appealed to the Resolutions passed in 1877 and resultrated in 1870 by the Hone of Commons, the first of which had condemned the lavy of import duties on cotton fabrics imported into India as "being contrary to sound commercial policy," while the latter called upon the Government of India to effect "the complete abolition of these duties as being unjust alike to the Indian consumer and to the English producer." It was, however, an open secret that the decision to exclude from the list of dutiable articles cotton yarus and labrics was not the decision of the Government of India but that of the Secretary of State. It was pertinently pointed out that the volume of trade in cotton goods and yarns then represented nearly one-half of the total imports from abroad, and that the exemption of these important commodities when practically overy single other commodity was being subjected to an import duty could not be justified on its merits as a sound fiscal measure. much less when it was an admitted fact that the Budget would still show a deficit.

Imposed .- The opposi-Duties tion to this measure, though it failed to secure its rejection in the Legislative Council, was position of import duties on cotton yarns and fabrics provided that it could be shown that such a measure was necessitated by the position of Indian finances, and that it was combined with an Excise duty which would deprive the import tax of any protective character. Accordingly in December 1804, consequent on the further deterioration in the financial position, two bills Sir James Westland, was careful to explain

The origin of this fiscal measure dates back been imposed on the Government of India by the Secretary of State in pursuance of the Repolution of the House of Commons quoted above. The provisions of this particular Hill are of little interest. From the first it was recombined Lancashire and that they were unpractical. Indian epinners disagreed as to the point at which the line should be drawn exempting Italian yarns from the Excise Duty. Practical difficulties were pointed out by Indian apinners as to the impatibility of epinning precisely to a particular count. I'mm the Lancashiw point of view it was contended that the Bill offered facilities for evasion while it was admitted that under the system adopted in the Bill, the taxation of Indian and Lancashire products was not being carried out on a similar basis.

Act of 1898.—The Act was in fact doomed to be short-lived, and in December 1895 the Goverement of India were compelled to re-consider the whole position and to introduce an entirely new measure which became law in January 1800 as the Indian Cotton butles Act II of 1820. This measure proceeded from two conclusions, namely, that no attempt should be made to obtain any duty from yarms whether imported or locally manufactured, and that an equal rate of duty should be applied to all woven goods whether imported or of Indian origin. With the object of conciliating the opposition, the the object of concurring the opposition, the rate of duty was fixed at 31 per cent. as opposed to the general rate of Customs duty of 5 per cent. The main provisions of the Act provided that the assessment for the purposes of collecting the Excise duty should be based on returns submitted by the mill-owners; and that provision should be made for a rebate in the case of woven goods exported out of India. No control beyond a requirement that statistical returns should be furnished was attempted in respect of spinning mills. On the other hand certain concessions in the matter of import duty on Mill stores were made by executive order so as to place Indian Mills on a footing more or less equal to their Lancashire competitors.

Criticisms of the Mensure.-It is not possible within the limits of the present article Its rejection in the Legislative country, was possible which and must be the present at the strong enough to induce the Secretary of State to do more than summarise the criticisms with to reconsider the matter. Yielding to the unit—which this measure was received in India. Much ed representations of the Government of India of the opposition was based on grounds of a and of Indian public opinion, Ills Majesty's translent character; as for instance that the Government eventually agreed to the re-imfinition industry was then in a state of continuation of the present and the continuation of the present and the continuation of the continuation ed depression and that it had been hard hit, particularly in respect of its export trade, by the currency legislation, and by the uncertainty as to the fiscal policy of Government. some quarters objection was offered to the ex-emption of yarn, which it was alleged, would place the Indian hand wearing industry at an advantage with the Indian power weaving industry. were introduced in the Legislative Council. The first of these subjected cofton yams and fabrics to the general import duty of 5 per centard radoren. The second imposed an Excise duty on all cofton yams of 20°s and above produced by Mills in British India. In introducing this latter Bill the then Finance Blinister, Sir James Westland, was careful to explain. petition between Indian and Manchester goods, that the policy underlying its provisions had but to a desire to handleap the Indian industry



Banking.

To commence with and for some considerable ime thereafter Government had a very large nterest in all three Banks, holding as they did clarge proportion of the share capital and having ment deposits with each Bank at various he right to nominate a number of the Directors. It was decided however in 1876 that this connection should cease and Government holding of shares was accordingly realised in that year and the right to be represented on the Directorates was given up at the same Government are still entitled, however, to audit the Banks' accounts at any time if? they deem this pecessary, to call for any information touching the affairs of the Banks and the production of any documents relative thereto, and may also require the publication of such statements of assets and liabilities at such intervals and in such form and manner as may be thought fit. The Banks' Agreements with Government are usually arranged for a period of ten years at a time and now-adays provide for the most part for the carrying on at the head offices and branches of the ordinary banking business of Government in India and for the management and conduct in the three Presidency towns of the Government loans. The management of the Government Savings Bank was at one time entrusted to the Bank, but this was handed over to the Post Office in the year 1896.

Paper Currency.

The Banks had the right to issue currency notes until the year 1802; but in that year this privilege was withdrawn and to compensate the Banks for being deprived of this right, forernment decided to deposit the whole of their balances at the Presidency towns with the Banks. This practice held good until the year 1876, when the Reserve Treasuries were formed; but since that year Government balances, which are all payable at call, have only been maintained at a figure sufficient to meet the demands of Government and sufficient also to compensate the Banks in part for the work of keeping the accounts. There are signs however that Government intend to adopt a more lib. ral policy in future in regard to the balances they maintain with the Presidency Banks." There is no definite undertaking on the part of Government to keep any balance with the Banks either at the head offices or branches; but there is a stipulation that in the event of the balance at the head office of each Bank falling below a certain stated figure, which varies in the case of each Bank, Government will pay interest on the

In order to assist Government in their attempts to encourage the use of currency notes throughout India the Banks have recently undertaken to issue and encash on behalf of

Of the three Presidency Banks the Bank of Government universal Currency notes for the Bengal which commenced business in the year public freely at most of their Branches and in 1800 is by far the oldest. It was followed consideration of their having undertaken this by the Bank of Bombay in 1840 and by the Bank of Madras in 1843, but the former was agreed to maintain certain minimum bajances, cound up in the year 1807 and the present that the present sank dates from the year 1808.

Government Deposits.

The following statement shows the Governperiods during the last 40 years or so :-

In Inkha of rapers.

_						
			Bank of Bengal.	Bank of Bombay	Bank Of Madras.	Total
:1	June	1				1
•	1876 1881	•••	230 200	91 162	115 53	719 314
	1850 1601	••	329 332	82 97	39 53	450 452
	1896 1901	**;	225 187	63 90	67 63	370 340
	1900	**	186 199	93 129	46	525 404
	1912 1913	••	210 247	755 167	63	440 482
	1914 1915	• •	200 263	197 187	93 102	880 552
	1916 1917	• •	336 1338	263 716	115 209	714 2203
		- 1		ł .	£	t .

General Banking Business.

This is regulated by the Presidency Banks Act, 1676, under which Act all three Banks are now working. The various descriptions of business which the Banks may transact are clearly laid down in Sec. 30 of the Act, and it is expressly provided in Sec. 37 that the Banks chall not transact any kind of banking business other than those sanctioned in Sec. 36. Briefly stated the main classes of business which the Banks may engage in are as follows:-

- (1) Investing of money in any securities of the Government of India or of the United Kingdom of Great Britain and Ireland, the stock or debentures of, or shares in Rallways bearing a Government guarantee in respect of interest and the debentures and securities of any Municipal body or Port Trust in India or of the Bombay Improvement Trust and the sitering, converting and transposing of such investments.
- (2) Advancing of money against any of the securities specified above or against bullion or other goods which or the

documents of title to which are deposited with or, assigned to the Bank as recurity.

- (3) Advancing of money against accepted i bills of Exchange and promissory notes.
- (4) Drawing, discounting, buying and selling of bills of exchange and other negotiable securities payable in India or Ceylon.
- (5) Receiving deposits.
- (6) Receiving securities for safe custody and realisation of interest, &c., from constituents of the Bank.
- (7) Buying and selling of gold and silver, whether coined or uncoined.
- (8) Transacting pecuniary agency business on commission.
 - The principal restrictions placed on the business of the Banks are as follows :-
- (1) The drawing, discounting, buying and selling of bills of exchange and other negotiable securities is confined to bills and securities payable in India and Ceylon.
- (2) Borrowing of money is only permitted
- (3) Loans or advances upon mortgage or

- of any immovable property or the documents of title relating thereto is expressly prohibited.
- (4) The amount which may be advanced to any individual or partnership by way of discount or on personal security is limited to an amount prescribed in the Bye-Laws of the Banks, such Bye-Laws having previously been approved by Government.
- (5) Loans or advances cannot be granted for a longer period than six months at a time.
- (6) Discounts cannot be made or advances on personal security be given, unless such discounts or advances carry with tuem the several responsibilities of at least two persons or firms unconnected with each other in general partnership.

Various representations have been made to Government by the Banks to have certain of these restrictions withdrawn, particularly those referred to under Nos. I and 2, which latter effectually prevent the Banks from doing anything in the nature of exchange business and from having access to the London money market for borrowing purposes. The Government of India were prepared to meet the Banks wishes in the above connection to a great extent in India.

In the year 1903; but the Sceretary of State

Loans or advances upon mortgage or did not approve of the Government proposals,
in any other manner upon the security and they were finally negatived in 1908,

Government Deposits.

The proportions which Government deposits have borne from time to time to the total Capital. Reserve and deposit of the three Banks are shown below :-

In Lakhs of Runees.

			I'm Danis o	zempoon,		
		1 Capital.	2 Reserve.	8 Government deposits.	Other deposits.	Proportion of Government deposits to 1, 2, 3 & 1.
31st Dece	mber.		20	050	625	0440
1886 1891 1896	**,	350 350 350	82 07 168	352 297 290	1412 1292	24.9 per cent. 18.7 14.2 "
1901 1906 1907	•••	360 360 200	213 279 294	840 807 835	1463 2745 2811	14.3 ;; 8.3 ;; 8.8 ;;
1908 1909 1910	••	360 360 380	300 318 331	325 819 423	2801 8205 3234	8:4 ;; 7:4 ;; 9:7 ;;
1911 1912 1913	••	360 375 - 375	340 361 370	439 420 587	3419 8678 3644	9.0 " 11.8 "
1914 1915 1916	••	375 375 375	386 869 858	561 487 520	4002 3800 4470	10°5 ;; 9°5 ;;

The Banks have also the management of the debt of a number of the Municipalities, Port Trusts and Improvement Trusts throughout India.

Government policy in regard to the disposal of their surplus treasury balances in India has been strongly criticised at various times during the last thirty years or so, and it has been argued that the high rates of interest which are so common a feature in India when the crops come to be marketed are to a very large extent due to Covernment action in withdrawing money from the market when it is most needed and locking it up in the Reserve Treasuries. This question was considered at some length by the Royal Commission on Indian Finance and Currency q. v. which arrived at the conclusion that the present methods of dealing with the balances were open to criticism. The Commission further stated that the most obvious remedy would be to close the Reserve Treasuries and place the whole of the Govern-ment balances in the Presidency towns with the Presidency Banks; but their final recommendation in this connection was that Government should make loans from their balances India have the question of appointing such to the Presidency Banks—such loans to be Committee presently under consideration.

within the absolute discretion of Covernment and to be granted only on good accurity and for thort periods. It is not known how far the Government of India are prepared to accept the Commission's recommendation in this respect; but it is understood that the matter

respect; but it is understood that the matter is presently under consideration.

The question of the establishment of a State Bank was considered at some length by the Commission and a considerable may of evidence was taken on this point. The opinions offered were however very conflicting, and although a draft scheme for such a Bank was drawn by by two of the Members of the Commission, the Commission as a whole finally came to the conclusion that they were not in a position to ontention that they were not in a postular in make recommendations one way or the other on the question of a Sinte Bank. It was any gested that a small expert body should be appointed in India to study the whole question and it is understood that the Government of India have the question of appointing such a

Recent Progress.

The following statements show the progress made by the three Banks within recent years:-In Lakhs of Rupees. BANK OF BENGAL

	Capital.	breactes. q	ovt. Other	Cash.	Invest-	Dividend for year,
31st December. 1890 1895 1900 1905 1905 1907 1908 1907 1910 1911 1912 1912 1913 1914 1915 1916	200 200 200 200 200 200 200 200 200 200	47 08 103 140 150 157 105 170 176 180 185 191 200 •204 •213	226	630 422 300 523 460 507 615 651 663 663 1169 783 772	20G 132 136 181 140 270 240 411 209 221 210 810 821 703 703	0 per cent. 10

[·] Includes Rs. 68 lakhs as a reserve for depreciation of investments.

BANK OF BOMBAY. 229 10 per cent. ii 18 13 13 232 14 15 312

BANK OF MADRAS.

****	~ ~											
A ad 3 a		1	Capital.	nerase i	Gayt, depo- rite,	,	Other depo- rite.	!	Cash.	Invest- ments.		vidend year.
1520 1525 120) 1205 1206 1207 1208			88 89 09 09 69 69	14 16 22 30 32 36 40	47 46 85 41 64 85 82		220 278 200 314 355 410 447	!	155 144 82 140 151 162 153	45 45 67 71 81 81	101 10 8 10 10 10	per cent.
1903 1910 1911 1912 1913 1914 1915 1916	••		00 00 00 00 00 00 00 00 00 00 00 00 00	149 600 700 700 85	49 72 59 75 80 91 80 104		500 567 025 743 803 761 803 060	:	111 181 105 190 219 267 256 260	70 85 101 113 117 131 184 101	10 10 10 10 10 10 10 10 10	99 98 49 99 19 19

Note.—(The Banks have power under Sec. 36 (1) to draw Bills of Exchange payable out of India under certain stated circumstances, but this permission is of comparatively little importance.)

BANK OF BOMBAY.

Branches.

BANK OF BENGAL.

Calculta-

Harrison Ecad, Clive Street & Park Street. Agra, Akyab; Allahabad, Benarca, Cawnpore, Chittagong, Dacca, Delhi, Hydrabad Dec-can, Jahalguri, Lahore, Lucknow, Moulmein, Nagpore, Naraingunge, Patna, Rangoon, Secunderabad, Simla.

Pay Offices.

Chandpore, Serrigunge and Bombay (Agency). Bezwada Erode, Narsapur, Italahmundry and

, Bombay-

Mandyl and Sandhurst Road, Alimedabad, Akola, Amraoti, Brozen, Hydera-bad (Sind), Indore, Jalgaon, Karachi, Poona, Rajkot, Shelapur, Sukkur and Surat

BANK OF MADRAS. lleppy, Bangalore, Bimlipatam, Calleut, Coconada, Cochin, Colmbatore, Colombo, Guntur, Madura, Mangalore, Masulipatam, Alleppy, Negapatam, Ootacamund, Salom, Tellicherry, Trichinopoly, Trivandrum and Tuticorin, Out Stations,

Vizjanagram,

THE EXCHANGE BANKS.

The Banks carrying on Exchange business Into Banks Carrying on Exchange business in India are merely branch agencies of Banks having their lead offices in London, on the Continent, or in the Far East and the United States. Originally their business was confined almost exclusively to the financing of the external trade of India; but in recent years most of them, while continuing to finance this part of India's trade, have also taken an active part in the financing of the intermal parties also part in the financing of the internal portion also at the places where their branches are situated.

At one time the Banks carried on their opera-At one time the Banks carried on their opera-tions in India almost entirely with money borrowed elsowhere, principally in London— the home offices of the Danks attracting de-posits for use in India by offering rates of in-terest much higher than the English Banks were able to quote. Within recent years how-ever it has been discovered that it is possible to attract deposits in India on quite as favourable terms as can be done in London and a very large proportion of the financing done by the Exchange Banks is now carried through by means of money actually borrowed in India. No information is available as to how far each Bank has secured deposits in India but the following statement published by the Director-General of Statistics in India shows how rapidly such deposits have grown in the aggregate within recent years,

TOTAL DEPOSITS OF ALL EXCHANGE DANKS

	BECURI	D IN IN	DIA.	
	In Lak!	s of Rup	ccs.	
1875		**	• •	106
1890				330
1885			• •	475
1890		• •		753
1895	**			1030
1900		• •		1050
1001		• •		1183
1002		• •		1370
1903				1614
1904				1632
1905				1704
1906				1803
1907				1917
1908		• •		1951
1909			• •	2027
1010				2479
1911				2816
1913		••	••	3103
End	kanda Day	alcot Inve		0

Exchange Banks' Investments. Turning now to the question of the invest-ment of the Banks' resources, so far as it con-

cerns India, this to a great extent consists of the purchase of bills drawn against imports and exports to and from India. The financing of the import trade originated and is carried through however for the most

part by Branches outside of India, the Indian for be accompanied by the documents relating to which rediscounting in London is carried on but the following figures appearing in the las an investment until maturity, balance sheets dated 31st December 1016 of The Hanks place themselves in f the undernoted Banks will give some idea of this.

LIABILITY ON BILLS OF EXCHANGE RE-DIS-COUNTED AND STILL CUERENT,

Chartered Bank of India 6,294,000 | Eastern Bank, Ld. 670,000 Hongkong and Shanghai Banking 8,365,000 (Corporation. Mercantile Bank of India, Ld. 2,964,000 National Bank of India, Ld... 5,645,000

The above figures do not of course relate to re-discounts of Indian bills alone, as the Banks operate in other parts of the world also, but it may safely be interred that bills drawn in

India form a very large proportion of the whole.

Branches share in the business constiting print to the goods in respect of which they are drawn chally in collecting the amount of the bills. Most of them are drawn on well known firms cipally in collecting the amount of the bills at maturity and in furnishing their other branches with information as to the means and standing of the drawers of the bills, and it is as regards the export business that the Indian Branches are more immediately concerned. The Exchange Banks have practically a monopoly of the export finance in India and in view of the dimensions of the trade which has to be dealt with the Banks would under ordinary circumstances require to utilize a very large proportion of their resources in carrying through the business. They are able however by a system of rediscount in London to limit the employment of their own resources to a comemployment of their own resources to a comparatively small figure in relation to the business they actually put through. No definite information can be secured as to the extent discount rate while on occasions also the Panks to which rediscounting in the London discount rate while on occasions also the Panks to which rediscounting in the London discount rate while on occasions also the Panks to which rediscounting in the London discount rate while on occasions also the Panks to which rediscounting in the London discount rate while on occasions also the Panks to which rediscounting in the London discount rate while on occasions also the Panks to which rediscounting in the London discount rate while on occasions also the Panks to which rediscounting the latest t prefer to hold the bills on their own account

> The Banks place themselves in funds in India for the purpose of purchasing export bills in a variety of ways of which the following are the principal:-

- (I) Proceeds of import bills as they mature. (2) Sale of drafts and telegraphic transfers payable in London and elsewhere out of India.
- (3) Purchase of Council Bills and Telegraphic Transfers payable in India from the Secretary of State.
- (4) Imports of bar gold and silver bullion.
- (5) Imports of sovereigns from London, Egypt or Australia.

The remaining business transacted by the Danks in India is of the usual nature and need not be given in detail.

The bills against exports are largely drawn of the various Exchange Banks carrying on at three months' sight and may either be"clean" business in India as at 31st December 1916.

In Thousands of &.

23,944,000

	Capital	Reserve.	Deposits.	Cash and Investment.						
Chartered Bank of India	1200	1800	22703	10371						
Comptoir National D' Escompte de Paris.	8000	1690	51000	11100						
Eastern Bank, Ld.	600	55	3090	1570						
Hongkong & Shanghal Bank	1500	3325	20306	8191						
International Banking Corpn	650	880	5100	2100						
Mercantile Bank of India	562	600	8358	2857						
National Bank of India	1000	1200	19551	5983						
Russo Asiatic Bank (1912)	4745	2400	50880	11240						
Yokohama Specie Bank	3000	2311	27477	8895						
Sumitomo Bank	2000	210	15622	3903						

JOINT STOCK BANKS.

Previous to 1900 there were few Banks of of a very speculative and unsafe character and this description operating in India, and such as it was a matter of no great surprise to many were then in existence were of comparatively small importance and had their business confined to a very restricted area. The rapid development of this class of Bank, which has been so marked a feature in Banking within ; recent years, really had its origin in Hombay and set in with the establishment of the Bank of India and the Indian Specia Bank in 1006, After that time there was a perfect stream of new flotations, and although many of the new Companies confined themselves to legitimate banking business, on the other hand a very large number engaged in other businesses in addition

people when it became known that some of the Banks were in difficulties.

The first important fallure to take place was that of the People's Bank of India and the toss of confidence caused by the fallure of that Bank resulted in a very large number of other feilures, the principal being that of the Indian Specie Dank.

The public have for the time being lost much of their confidence in this class of Bank and deposits to a very large extent have been with-drawn and it is feared that a large portion of the money has gone back into hoards. This number engaged in other businesses in addition drawn and it is feared that a large portion of the money has gone back into hoards. This Three Banks made very great strides during is very unfortunate as many of the Banks, the first few years of their existence, but it, particularly the older established concerns, was generally suspected in well informed circles, have always been recognised as being conducted that the business of many of the Banks was on safe and prudent lines.

The following shows the position of the better known existing Banks as it appears in the latest available Balance Sheets :--

In Lakhs of Rupecs.

	Capital.	Reserve.	Deposits.	Cash and Investments.
Allahabad Bank, Id. Allance Bank of Simia, Id. Bank of Baroda, Id. Bank of India, Id. Bank of Mysore, Id. Central Bank of India, Id. Indian Bank, Id. Karachi Bank, Id. National Financing and Commission Corporation, Id.	30 60 10 50 10 15 10 2	48 40 5 10 1 1 2	546 1000 141 830 67 - 218 20 7	218 431 25 97 17 103 100 1
Oudh Commercial Bank, Ld	11 16 10	3 1 11 	12 4 110 4	3 51 2

The principal Banks which have gone into liquidation during the last two or three years are given below along with a Statement of their Capital Reserve and deposits as at the date of the latest available Balance Sheets:—

In Lakhs of Rupees.

***************************************				Capital.	Reserve.	Deposits.
Bank of Upper India (1912) Bombay Banking Co		••	::	10 1	9	191 , 13
Credit Bank of India, Ld. Deccan Bank, Ld.		••	::	10 1	••	. 51 . 11
Indian Specie Bank, I.d Kathiawad and Ahmedabad Ba	nking Corp	oration	::	75 7	. 15	270 23
Lahore Bank, Id. (1912) People's Bank of India, Id.		••	::	1 12	2	28 127
Punjab Co-operative Bank, Ld. The Ploneer Bank		••	::	7 3-84	2	1. 96 2. 96
	,		, i	•	,	_

	cowth	of Joint	Stock Ba	nks.	1		Capital.	Reserve.	Deposits.
					1909	**	82	45	807
The fo	Howing	Ogures ap	pearing in	the Report	1905		81	77	1193
consortis a	of the	Canital, 1	የፍላይኒያው ወሀ	a nebosir	1000	••	133	5.6	1155
of the p	rincipal	Joint St	ock Banks	registered	1997	••	229	63	1400
in Indla	:				1003	••	230	60	1626
		In L	akhs of ruj	ecs.	1000	••	266	87	2019
		Capital.	Reserve.	Deposits.	1910	••	275	100	2565
1970		9	1	13	1911	••	255	126	2529
1875	**	14	2	27	1912	••	291	101	2725
1880	••	18	3	63	1913	••	231	102	2259
1885	•••	18	5	91	1914		251	141	1710
1890		33	17	270	1915	••	281	150	1757
1895	•••	63	31	566	1916	••	257	173	2471

NATIVE PRIVATE BANKERS AND SHROFFS.

Native private Bankers and Shroffs flourished | point that the assistance of the Banks is called in India long before Joint Stock Banks were into requisition. The chrofts do this by taking ever thought of, and it seems likely that they a number of the bills they already hold to the will continue to thrive for some very considerable time to come. The use of the word "Shroff" is usually associated with a person who charges usurious rates of interest to impecunious people, but this is hardly fair to the people known as "shroffs" in banking circles, as there is no doubt that the latter are of very real service to the business community and of very great assistance to Banks in India. present conditions the Banks in India can never hope to be able to get into sufficiently close touch with the affairs of the vast trading community in India to enable them to grant accom-modation to more than a few of these traders direct, and it is in his capacity as middleman that the shroff proves of such great service. In this capacity also he brings a very con-siderable volume of business within the scope of the Tresidency Banks Act, and enables the Presidency Banks to give accommodation which, without his assistance, the Banks would not be permitted to give. The shroff's position as an intermediary between the trading community and the Banks usually arises in something after the following manner. A Shop-keeper in the bazaar, with limited means of his own, finds that, after using all his own money, he still requires say Rs. 25,000 to stock his shop suitably. He thereupon approaches the shroff, and the latter after very careful inquiries as to the shopkeeper's position grants the accom-modation, if he is satisfied that the business is safe. The business, as a rule, is arranged through a hoondee broker, and in the case referred to the latter may probably approach about ten shrofts and secure accommodation from them to the extent of Rs. 2,500 each. A hoondee usually drawn at a currency of about 2 months is almost invariably taken by the shroffs in respect of such advances.

lianks for discount under their endorsement, and the Banks accept such bills freely to an extent determined in each case by the standing of the shroff and the strength of the drawers. The extent to which any one shroll may grant accommodation in the bazaar is therefore dependent on two factors, viz., (1) the limit which he himself may think it advisable to place on his transactions, and (2) the extent to which the Banks are prepared to discount bills bearing his endorsement. The shrows keep in very close touch with all the traders to whom they grant accommodation. they grant accommodation, and past experience has shown that the class of business above referred to is one of the safest the Banks can engage in.

The rates charged by the shroffs are usually based on the rates at which they in turn can discount the bills with the Banks and necessarily vary according to the standing of the bor-rower and with the season of the year. Gene-rally speaking, however, a charge of two annas per cent, per mensem above the Bank's rate of discount, or 11 % is a fair average rate charged in Bombay to a first class borrower. Rates in Calcutta and Madras are on a slightly higher scale due in a great measure to the fact that the competition among the enrolls for business is not so keen in these places as it is in Bombay.

The shroffs who engage in the class of business above described are principally Marwaries and Multanis having their head Offices for the most part in Bikanir and Shikarpur, respectively, the business elsewhere than at the Head Offices being carried on by "Moonims" who have very wide powers.

It is not known to what extent native bankers and shroffs receive deposits and engage in ex-A stage is reached however when the demands change business throughout India, but there is on the shroffs are greater than they are able to no doubt that this is done to a very considerable meet out of their own money; and it is at this extent.

THE BANK RATE.

Each Presidency Bank fixes its own Bank | rate, and the current rate of each Bank determines to a great extent the rates for all important classes of business within the Bank's sphere of influence. The rates in the three Presidencies are not always uniform, but it seldom happens that a difference of more than

The rate fixed represents the rate charged by the Banks on demand loans against Govern-ment securities only and salvances on other securities or discounts are granted as a rule at a slightly higher rate. Ordinarily such advances or discounts are granted at from one-half to one per cent, over the official rate; but this does not always apply and in the monsoon months, 1% exists, more particularly as regards Bombay and Bengal, which seem to be in closer touch when the Bank rate is sometimes nominal, with each other than appears to be the case it often happens that such accommodation with Madras.

The following statement shows the

	}	Bar	ak of Bon	abay.	Bai	nk of Ben	gal.	Ba	nk of Ma	dras.
Year.		1st Half- year.	2nd Half- year.	Yearly average.	1st Hall- year.	2nd Half- year.	Yearly average.	1st Half- year.	2nd Half- year.	Yearly
1881 1882 1883	••	5.40 8.05 7.00	5.08 4.13 0. 2	5.69 6.10 6. 6	4.862 8.177 6.994	5.717 5.022 6.560	5.269 6.599 6.777			
1884 1885 1880	••	9.03 5.90 6.35	4.17 4.00 6.50	6.00 4.95 6.42	8.813 6.757 5.023	3.946 4.005 6.152	6.379 5.381 6.037	ļ		
1887 1888 1880	**	7.78 5.90 9.46	3.73 5.51 4.00	5.75 5.70 6.73	7.475 5.730 9.309	3.804 5.185 4.674	5.639 5.460 6.991			5.60 6.80
1800 1801 1802	••	9.21 3.88 3.97	3.28 2.23 3.04	0.24 3.05 3.50	8.265 3.502 3.894	3.315 2.022 3.114	5.790 3.062 3.499			5.74 2.02 3.51
1893 1894 1895	•••	5.07 7.55 4.30	3.84 3.40 3.60	4.90 5.50 3.95	5.695 7.425 5.066	4.076 3.364 3.502	4.880 5.301 4.320			5.27 5.00 4.23
1896 1897 1898	.,	5.85 10.11 12.03	5.10 5.01 4.55	5.47 7.87 8.29	5.771 0.884 11.016	5.008 5.007 5.114	5.691 7.925 8.065		:	5.62 7.07 7.78
1899 1900 1901	::	6.34 6. 9 7.07	5.42 3.79 3.83	5.89 6.34 5.45	6.307 6.414 6.893	5.491 4.272 4.070	5.015 5.343 5.452	7.57	4.00	8.05 5.57 5.63
1902 1903 1904	::	6.25 6. 7 5.15	3.43 3.48 3.82	4.84 5.09 4.48	6.176 6.265 5.560	3.549 3.401 4.100	4.862 4.870 4.875	7.13 6.42	4.02 4.07 4.07	5.51 5.70 5.21
1995 1996 1997	::	6.77 7.24 7.81	4.42 5.28 4.11	5.09 6.26 5.96	5,559 6,950 7,635	4.630 5,885 4.576	5.094 6.417 6.105	6.04 7.13 8.21	4.10 5.01 1.51	5.11 6.69 6.83
1003 1000 1010	••	7.84 6.47 6.19	4.02 3.82 4.14	5.03 5.14 5.16	7.417 6.550 6.113	4.244 3.907 4.510	5.830 5.213 5.326	8.39 7.55 7.17	4.05 4.41 4.65	0.05 5.95 5.91
1011 1012 1013	::	6.55 6.01 7.23	3.52 4.10 4.62	5.03 5.05 6.02	6.657 6.212 6.569	4.039 4.592 5.231	5,507 5,417 5,050	7.50	4.55 4.59 5.54	5.07 6.03 6.03
1914 1915	••	5.52	5-23	2-10	5.939 5.839	4:051	5,450	6.63 5.87	2.16	5.43

	Post of Boming.			Bank	: 01]	Perfer,		Ba	י צמ	ell lo	lras.	
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-	1931-			Per ciat.	1995			Per cent	1902			Per cent
	Televier Medica May	**	110 120	6 5 4	February March	••	23 9 83	87	January February	••	14 20 6	578
	Turn Outot en	• • •	16	5 4 5	April E July	••	6 14 27 29	6 5 4	May "	••	29	6
	igia 1913 Karun y	•••	2 16	6	August September	•••	17	3 4 5	June December	. • •	12 80 23	5 5
	rafia Afia .		30 0	1-0) (-0)	November December		50 14	6	1903 January February		12	0 7
	** ****** **	!	27	5 40	1936 January Pebruary		1	S Q	April July		01 62 2	
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	Definite 1010 Mary		14	٠ 40	May		12	5	1904 January		7	ç
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	#7 #16		53	0*10	July July		23 10	5 4 0	or July		30 5	5
	Aith . Noy	••	22	Ġ	August		23 23	4 5	December	•	22	. 3
,	Taring Carlos	***************************************	21	5 4 C	Septimber October .		10 10 11	6	January Pebruary March		3275	6 7 8
	Augori - girailea Nosembre		12 15	5	November Dommber		25	8 0	April "		24	8
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	želje Amori		4	5 4	Softmber Softmber		200	3 5 8	3/2 -		25	÷
	Staggerman in		27	4	1009	2 14 2	4		June July		21 21	5 4
	Programme management		13	, i	Jennity "	**	5	ě			5	5

Bank	of Bo	mbay		Bank	ofl	Bengal	i .	Bank e	of Mad	Iras.
Date	• ,		Rate.	Dat	c.		Rate.	Date.	-	Bate.
1908			Per cent.	1968			Per cent.	1906	1	Per cent.
January February	::	3	- 7 8 9	January		16	9	December	10	7 8
March		19 26	- 8 7	March May		5 26 21	7 6	January	16 29	9 8
April		16 28	8	June July		25 2	5	April May	6 24	7
May June		25	6	" September		16 3	3	July	1 8	5
July		16 23	4 3	November		5 26	5 6	July November	4	5
October November		22 5	5	January	::	14 28	7 8	December	23 23	6 7
December 1900		10	6	March April		18 20 27	7 G 5	1903 January February	9 10	8 9
January May	::	14 13	5	Jay June		17	3	May June	18 15 25	.7 .6
June July		24 15	4 3	July September		30 13	4 5	July	7 11	5 4
November	::	18	5 0	November December		9	Ğ	November December	30 10	5
910		25		1010 March May		3 12	7 6	1909 January	12 23	7 8
March		1 ² ,	6	June	::	16 30	5 4 3	Jane	1 17	
Juno		23 7	3	September October		22	4 5	Jaly	23 19	7054
July October November	••	3	5	November December	• •	3	6	November	16 20	6
December 1911	••	17 15	7	1011 February March		23 30	8 7	January March May	4 7 13	7 8 7
May June July	••	18 1 21 13	6 5 4 3	May June	•••	11 1 15	6 5 4	Jane Jaly	27 27	6 5 4
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1912 January		11		September 1912 January	• •	11	6	Describer	27 22	7
rebruary	••	1 22	В	;;	**	18 26	8	1911 May June	===	7
March May		20		March May	••	21 23	6 5	jely I	12	5 £

	•	

BANKERS' CLEARING HOUSES.

those of Calcutta, Bombay, Madras, and Karachi, and of these the first two are by far the most important. The members at these places most important. The members at these places consist of the Presidency Banks, most of the Exchange Banks and English Banking Agency firms, and a few of the better known of the local Joint Stock Banks. No Bank is entitled to claim to be a member as of right and any application for admission to a Clearing must be proposed and seconded by two members and be subject thereafter to ballot by the existing members.

The duties of settling Bank are undertaken by the Presidency Bank at each of the places mentioned and a representative of each member attends at the office of that Bank on each business day at the time fixed to deliver all cheques entries thus doing he may have negotiated on other members cash in any form.

The principal Clearing Houses in India are and to receive in exchange all cheques drawn on him negotiated by the latter. After all the cheques have been received and delivered the representative of each Bank advises the settling Bank of the difference between his total receipts and deliveries and the settling Bank thereafter strikes a final balance to satisfy itself that the totals of the debtor balances agrees with the total of the creditor balances. The debtor Banks thereafter arrange to pay the amounts due by them to the settling Bank during the course of the day and the latter in turn arranges to pay on receipt of those amounts the balances due to the creditor Banks. In practice however all the members keep Bank accounts with the settling Bank so that the final balances are settled by cheques and book entries thus doing away with the necessity for

The figures for the Clearing Houses in India above referred to are given below :-Total amount of Cheques Cleared Annually.

. In lakhs of Rupees.

				Calcutta.	Bombay.	Madras.	Karachi.	Total.
1901		.,	••	Not available	6,511	1,038	178	8,027
1902	••	••	• •		7,013	1,295	268	8,576
1903	••	••	••		8,762	1,464	340	10,566
1904	••	••	• •	·	9,492	1,536	865	11,393
1905		••			10,927	1,600	324	12,811
1906	••		••	****	10,912	1,583	400	12,805
1007	••		• •	22,444	12,645	1,648	530	37,167
1908		. • •	••	21,281	12,585	1,754	643	36,263
1909		••	••	19,776	14,375	. 1,048	702	30,801
1910			••	22,238	16,652	2,117	765	41,762
1911	••	,.		25,763	17,605	2,088	762	46,213
1912'	~′	••	٠.	28,831	20,831	1,152	1,159	52,835
1913	••		٠,	33,133	21,890	2,310	1,219	68,682
1914			••	28,031	17,696	2,127	1,315	40,100
1915	•••	••		32,266	10,462	1,887	1,352	51,967
1916		•••	٠.	48,017	24,051	2,405	1,503	76,086



31% Loan converted at 76 for every Rs. 150 nominal.

4% Conversion Loan at 92 for every Rs. 150

The total amount subscribed towards the War Loan up to the end of August was roughly Rs. 50 erores.

Government debt may be held in the form of promissory notes or Stock Certificates but Notes or Certificates can only be issued in even lundreds of rupees. Promissory notes are transferable by endorsement and as such transfers do not require to be registered it follows that Government do not keep any record of the holders of such notes from time to time. A holder of a Stock Certificate is a registered holder however and transfers can only be made by transfer deed which must be submitted to and approved of by the authorities conducting the lean business on behalf of Government.

The question of issuing Bearer Bonds with or without coupons attached, is presently being considered by Government and it seems likely that this form of security will be issued in the near future.

Interest is payable half-yearly on each loan on the dates noted below.

Loan of 1842-43 1st Febry. & 1st August. Loan of 1854-55 30th June & 31st Deer. Loan of 1865 1st May & 1st Novr. 16th Jany. & 16th July. Loan of 1879 30th June & 31st Decr. Loan of 1896-07 Loan of 1900-01 30th June & Slat Decr. 4% Loan of 1915-16 1st June & 1st Decr. 4% Loan of 1910-17 1st Apl. & 1st Oct. 5% & 51% Loans of 1917 15th Feb. & 15th Aug

Interest may be made payable at the option of the holder at the Public Debt Office Banks of Bengal, Bombay or Madras, at any Government Treasury, or at the Bank of England, London. In the case of Promissory Notes, presentation of the notes at the office where interest is payable is necessary before interest can be drawn but this does not apply as regards Stock Certificates and interest warmunts in respect of these are sent out to the registered holder as soon as interest falls due. The interest on notes enfaced to London is paid by rupee drafts on India.

Renewal, Conversion, Consolidation and Sub-Division of Promissory Notes.

RESEWAL

When all the spaces reserved for endorsements on the reverse of a note have been filled up or when the spaces utilised for recording payments of interest have been exhausted the note requires to be renewed before any further transfers can be allowed or interest drawn. The fee for such renewal is at the rate of a per cent. on the face value of the note subject to a maximum of Re. 1 for each note but no renewal fee is charged in the case of a note on which no endorsements appear when the interest charges are expended.

CONVERSION.

Promissory Notes of the 31 per cent. loans of 1842-43, 1854-55, 1865, 1879 and 1000-01 may be transferred to any other of those loans except that no transfer to the loan of 1000-01 from any of the other loans is admissible.

It is made a condition however before any such transfer is permitted that a full half-year's interest is due on the Promissory Note at the time it is presented for transfer.

The fees charged are the same as those applicable to renewals.

CONSOLIDATION AND SUB-DIVISION.

Notes of the same loan, on which interest has been paid up to the same date, may be consolidated or notes may be sub-divided into others of smaller denominations, but of the same loan, at the option of the proprietors, notes only being issued for Rs. 100 or multiples of Rs. 100.

The fee charged is at the rate of ‡ per cent. on the face value of the new notes received; subject to a maximum of Re. 1 for each note.

The management of the debt in England is entrusted to the Bank of England who are paid commission at the rate of \$300 per million pounds in respect of the sterling debt and \$400 per crore of rupees in respect of the rupee debt. The charge for the latter is however subject to a minimum of £8,000.

Quotations for 31 per cent. Government of India Loans.

Sterling Loan.

Rupee Loan.

	ł		Trabec	ZJULII.	DIGIT.	ing advant
	Jany.		I	ls.		£
Į	1895	4 *	103.0	per cen	t. 1123	per cent:
ı	1896	• •	105.7	ii	117	11
	1897	• •	98	**	1181	
i	1893		05.13	다.	117	11
l	1800	• •	94	ıi.	116}	#
ľ	1900	• •	95.10	i ii	110	· #
	1901	• •	96	**	108	;;
	1002		95.14	**	108	77
	1903		97.0	ii	107	
	1904		95.2	**	103	H .
	1905	4.	98-1	**	1061	ii
ı	1906		97.14	99	1051	ij
	1907	• •	05.7	93	104	· #J
	1908		06.3	99	1021	**
	1909	• •	94.11	11	09	;;
	1910	• •	93.7	21	981	13
	1911	• •	95.1	, 12	- 82‡	; ;
	1912	••	96.5	17	94	;;
	1913		94.0	;;	91.7	-16 ;;
	1914	• •	95.10	**	851	**
	1915	••	81 (De		Nom	inal.
	1016	75	•8 (Sep	t),,	70}	per cent.
	1917 (Au	g.)	69	39	. 603	n ,

AN INDUSTRIAL BANK.

he carly part of 1918.

apital which will give the Bank the advantage prove a safe and profitable business."

In the course of the cyldenes taken by the of direct connection with the money market. ndustrial Commission great stress was laid on the importance of establishing Industrial Banks a India in order to finance new industrial stress was a finance in the industrial banks a India in order to finance new industrial caching business as Is done by the present exchange business as Is done by the present banks but its expected to short of this evidence it was laid own that some form of Government support must be given. Willst this evidence was cling taken Mesers. Tata Sons & Co. of Bombay uncled a scheme for an industrial bank on very big scale. The authorised capital of its lank is Rs. 12 crores of which about Rs. Stores have been issued and the whole of this as subscribed without any appeal to the ubile. A strong directorate was appointed in the bank is expected to open business in he early part of 1018. ndustrial Commission great stress was laid on In explaining the group of the Bank they said. he early part of 1918.

In a circular explaining the aims and objects of the new undertaking Messrs. Tata Sons & Co. also from its financial side, and in its relation also great stress on the part which industrial anks have played in financing the industries and differently appears they expected an Luglish financial group in the part of the expected an Luglish financial group in articipate that they expected an Luglish financial group in articipate that this side of the bunk's business—of take up a considerable portion of the intended the underwriting of Industrial issues—will applied which will give the Bank the advantage.

FAILURES OF INDIAN BANKS.

In the Indian Year Book for 1015 a full results of this acute commercial crisis are sum-account was given of the disastrous failures of Indian banks, which commenced in 1013 of the principal bank that failed, the Indian sum of the following year. Further, the statistical position of all three banks was set out a tables. For complete details of this painful principal bank of Bombay, are appended.

In the Indian Year Book for 1015 a full results of this acute commercial crisis are summarised below, and the liquidators' reports of the principal bank that failed, the Indian Speech Bank of Bombay, are appended.

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In the Indian Year Policy in the Indian Speech Bank of Bombay, are appended.

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In the Indian Year Policy in the Indian Year Po

	•		CAPITAL.			Date of
No.	Name or Company.	Authorised,	Subscribed.	Pald-up.	Amount of Deposits.	going Into Houldation
	PUNJAB.	Ry.	R«.	R∢.	Ra.	1915
1 2	Indian Ranking Co., Lahore Amritan National Ranking Co., Am-	5,00.000	27,850	6,568	607	4th August.
3	New Doaha Rank	10,00,000	1,38,000	1,07,890	1,07,658	4th July.
	Amritsar	5,00,000		•	••••	24th Jan.
-	Total,'Punjal	20,00,000	1,65,850	1,14,458		
	вомвах.					
1	Sind Bank	25,00,000	3,26,700	82,205	••••	11th Jan.

						
			CAPITAL.	•	Amount of	Date of
No.	Name of Company.	Authorised.	Subscribed.	bscribed. Pald-up.		going into liquidation,
	UNITED PROVINCES.	Rs.	. Rs,	Rs,	Rs.	1915.
23	Kashmiri Bank, Fyza- bad Blurat Bank, Meerut United India Bank, Aliahubad Cawnpow Banking	1,00,000 1,00,000 5,00,000	1,00,000 52,200 39,104	1,00,000 52,200 26,733	••••	13th Dec. 4th August. 5th Jan.
	Co., Cawnpore	0,00,000	2,08,384	1,03,461	••••	24th July.
	BANGALORE.	1,00,000		-,00,702		
1 2	Rajdhany Bank Bangalore Canton- ment Trading and	80,000	13,760	10,404	,	15th Jan.
3	Banking Co. Bangalore Canton- ment Cavalry Road	20,000	6,100	6,100	••••	0th April.
	Savings Bank	1,50,000	69,775	53,114	23,532	25th April.
	Total, Bangalore .	2,50,000	89,625	69,618	••••	
[GRAND TOTAL	50,50,000	7,00,550	4,50,832	••••	

Abstract Statement of Companies incorporated in British India and the Mysore State and registered in the six months, April to September, 1917, as compared with those in the corresponding months of the preceding year.

	(April to September.)		,	(April to September.)	
Classification of Companies.	Number of Aggregate authorised Companies. Campanies. Campanies.		Campanies.	Number of Companies	Aggregate nuthorised Capital.
Banking and Loan Insurance Reliways and Tramways. Shipping, Landing, and Warchousing Co-operative Association. Printing, Publishing and Stationery Trading other than Rail- ways, Shipping, Co- operative Association, Printing, etc. Cotton Mills Jute Mills Mill for wool, silk, hemp, etc. Cotton and Jute Screws and Presses	20 3 1 8 8 42 	(Rs. 1,000) 1,016 28,00 5,00 2,50 3,00 1,26,32 1,00 2,00	Paper Mill Rico Mills Flour Mill Other Mills and Presses Tea Planting Coffee and Cinchona Planting other than tea, coffee, and cinchona Coal Mining Mining and Quarrying other than Coal Land and Building Brevery Leo Manufacturing Companies other than those specified above Total	1 2 2	2,00 . 1,70 . 15,00 . 34,03 . 3,00 . 5,48 . 14,00 . 46,50 . 1,00 . 6,88 . 60 . 32,35 . 3,51,31

300 The War and Prices.

300	, 		1 110 11 111 finte 1 / 1003.
	Prices in March 1917 expressed:	In Indox Numbers (March 1916 ==100).	Minmed 18, a. p. 16, a.
The War and Prices. The warkets throughout India as compared with prices prevailing at the outlereds of War.	. July	March 1917.	81 101 101 81 81 77 77 77 87 73 73 73 73 137 137 14 the Cent fombay an Acubay, 1 and Bear and Bha r, 2 in Ma
	Puters roi =100).	March 1916,	88 95 95 81 82 82 75 75 75 75 75 75 83 83 83 83 83 72 83 83 83 83 83 83 83 83 83 83 83 83 83
	NUMBERS (PHIC) 1014=100)	March 1915.	191 103 103 100 100 100 100 100 100 100 10
	INDEX	July 1014.	100 100 100 100 100 100 100 100 100 100
	Prices.	March 1917,	18
		March 1916.	14. n. p. 2 13 0 0 3 10 0 0 3 10 0 0 3 10 0 0 3 10 0 0 0
	a	March 1916.	130 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
		July 1014.	His. a. p. 6 8 2 3 4 2 1 3 4 2 3 4 3 13 4 6 3 13 6 4 4 2 3 13 6 4 4 2 3 6 4 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2
		Rate per	cot 822, fbs. 6 8 8 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	alon (I	Anticle.	in the property of the propert
			Tico 1 Whent 2 Jantoy 3 Jantoy 3 Jantoy 3 Jantoy 5 Jantoy 6 Janto 6 Janto 7 Janto 7 Janto 7 Janto 10 J

The School of Oriental Studies.

This S hed was established by Rayal Clarfer in June 1916. The perpose of the School for set test in the Christer are to be a School of Oriental Studies in the University of London to give instruction in the Imagage of Hastern and Mineau proples. Ancient and Modern, and in the Literature, Ristory, Religion, and Choloma of those proples, especially with a virte to the needs of presentable with other list or to Africa for the persuit of study and remarch, commetce or a profession, and to do all or any of such other things as the Governing Body of the School consider conductive reincidental threto, having regard to the provision for these purposes which already exists cleably read in particular to the coordination of the work of the School with that of similar institutions both in this country and in our Eastern and African Dominions and with the work of the University of London and Its other Schools.

The aims of the School may be summarized -briefly as follows; (i) To provide a great University centre for Oriental and Mirran studies and research; (ii) to provide training in Languages, Literature, History, Beligious, and Customs, for military and civil officers of Government and for any other prerows about to proceed to Africa and the East for commercial or other enterprises.

The School has been created as the outcome of the Reports of two Government Committees, the first a Trasury Departmental Committee presided over by Lord Reay, the second an India Office Departmental Committee presided over by Lord Cromer. The School is intended to provide Lordon with a centre for Oriental teaching adequate to the needs of the interpolls and of the Empire, and one that will remove the repreach that London has hitherto been without an Oriental School comparable to those of Paris, Berlin, and Petrognad.

The Initial scheme of teaching of Modern Oriental Languages recommended by Lord Reay's Committee for the School is as follows:

Group I.—NEAR EAST: Turkish, Asalie and Persian.—One Professor, two Readers, three Native Assistants.

Group II.—NORTHERN AND EASTERN INDIA:

Hindi and Hindustani and Bengali.—One
Professor, one Reader, two Native Assistants.

Group III.—WESTERN INDIA: Marathi and Gujarati.—One Professor, one Reader (or two Readers), two Native Assistants.

Group IV.—Southern India: Tamil and Telugu and Kangrese.—One Professor, one Reader, three Native Assistants.

This S hort was established by Royal Charter Group V.—PURTHER INDIA, MALLY ARCHITEC June 1916. The periods of the School Act of in the Charter) are to be a School Offendal Study in the University of London one Native Assistant, Julius,—One Reader,

Group VI.—FAR EAST: Chinere.—One Professor, one Native Assistant. Japanese.—One Pro-

feror, one Native Assistant.
Group VII.—Affice. Suchiti.—One Render,
one Native Assistant. Haum.—One Render, one Native Assistant.

The Reay Committee further recommended that \$1,000 a year should be spent in teaching the following languages or groups of languages, Armenlan, Assances, Panjabi, Tibetan, Pashto, Sanlales, Stances, Milanesian languages, Polynesian languages, Amharic, Luganda, Somali, Yoruba, Zulu, The Committee also recommended that provision should be made in the School for the teaching of classical Oriental studies, e.g., Sanskrit and Palli, Not only the languages, but the history, customs, and religions of the propless who speaks them will be taught in the School.

The Governing Body are negotiating with the University of London for the transfer to the School of the Oriental teaching hitherto provided at University and King's Colleges.

The School possesses noble and adequate buildings, provided for them by Government under the London Institution (Transler) Act of 1912. The sum of £25,000 required for the alteration and extension of the buildings of the London Institution for the purposes of the School buildings are quiet, although they are in the heart of the City. They are only two minutes' walk from the termini of the Great Laster and Central London Railways and from Moorcate Street Station on the Metropolitan Railway, and about six minutes' walk from the Bank of England. The School was formally opened by the King on 23rd Tebruary, 1917, and the first Bulletin of the School (price 6.) was published later in the year.

Finances.—An appeal for an endowment fund was issued in October, 1910, which states that The Berlin School of Oriental Languages had, before the War, an income of £10,000; the income required for the School in London, of which the scope is necessarily more extended, is £14,000. Of this sum the School has at present in view an income of about £7,500, where the inview an income of about £7,500.

The Committee

for this purpose, towards which they have as a result of a preliminary appeal (which was suspended in August, 1914), about £10,000.

Patron, H. M. the King. Chairman of the Gorerning Hody, Sir John Hewett. Honorary Secretary, P. J. Hartog, Esq., C.I.E.

Agriculture.

- As crops depend on the existence of plant | confined to European planters, Farming is good and moisture in the soil so the character of the agriculture of a country depends largely on its soil and climate. It is true that geographical situation, the character of the people and other considerations have their influence which is not inconsiderable, but the limitations imposed by the nature of the soil and above all by the climate tend to the production of a certala class of agriculture under a certain given set of conditions.

The climate of India, while varying to some extent in degree, in most respects is remarkably similar in character throughout the country. The main factors in common are the monsoon, the dry winter and early summer months, and the intense heat from March till These have the effect of dividing the year into two agricultural seasons, the Kharif or Monsoon and the Rabi or Winter Season each bearing its own distinctive crops. From early June till October abundant rains fall over the greater part of the continent while the winter months are generally dry although North-Western India benefits from showers in December and January. The distribution of the rainfall throughout the year, which is of considerable importance to agriculture, is none too favourable, but is not quite so bad as is often represented. The rainfall is greatest at what would otherwise be the hottest time of the year, rizemid-summer and when it is most needed. It should be remembered that in a hot country ntermittent showers are practically valueless is evaporation is very rapid. The distributon of rainfall such as is common ir England, for example, would be of little use to Indian

Soil .- For the purpose of soil classification ndia may be conveniently divided into two main areas in (1) The Indo-Gangetic plains, (2) Central and Southern India. The physical leatures of these two divisions are essentially leatures of these two divisions are essentially different. The Indo-Gangetie plains (including the Punjab, Sind, the United Provinces, Bengal, Bihar and Assam) form large level stretches of alluvium of great depth. The top soil varies in texture from sand to clay, the greator part being a light loam, porous in texture, casily worked, and naturally fertile. The great lepth of the alluvium tends to keep down the off temperature. Central and Southern India on the other hand consist of hills and valleys. The higher uplands are too hot and too near he rock to be suitable for agriculture which is mainly practised in the valleys where the soil is deeper and cooler and moisture more plentiful. The main difference between the soils of the two tracts is in texture and while the greater part of the land in Northern India is porous and easily cultivated, and moist near to the surface large stretches in Southern and C-ntral India consist of an intractable soil called

Agricultural Capital and Equipment.—

carried on with a minimum of capital, there being practically no outlay on fencing, buildings, or implements. The accumulation of capital is prohibited by the occurrence of famine and the high rate of interest and extravagance of expenditure in marriage celebrations. The organization of co-operative credit which has been taken in hand by Government and which has already proved successful in many provinces will undoubtedly lead to an increase in Agricultural capital.

Equipment.—For power the ryat depends chiefly on cattle which, as a rule, are light, and necessary tilth for crops is brought about by frequency of ploughings, the result being that the soil is seldom tilled as t should be. This is not due in any way to want of knowledge on the part of the people but through want of pro-per equipment. The Indian Agriculturist, as a rule, possesses an intimate knowledge of the essentials of his own business, and fails through lack of ways and means.

Implements are made of wood although . ploughs are usually tipped with iron points and there is a great similarity in their shape and general design. The levelling beam is used throughout the greater part of the country in preference to the harrow and roller; and throughout Northem India the plough and the levelling beam are the only implements possessed by the ordinary cultivator.

In the heavier soils of the Decean trap a cultivating implement consisting of a single blade, resembling in shape a Dutch bee, is much used. Seed drills and drill hoes are in use in parts of Bombay and Madras but throughout the greater part of the country the seed is either broadcast ed or ploughed in. Hand implements consist of various sizes of hoes, the best known of which are the kodal or spade with a blade set at an angle towards the labourer who does not use his feet in digging, and the khurpi or small hand hoc. Of harvesting machinery there is none, grain is separated either by treading out with oxen or beating out by hand, and winnowing by the agency of the wind.

Cultivation.—Cultivation at its best is distinctly good but in the greater part of the country it has plenty of room for improvement. As in any other country success in agriculture varies greatly with the character of the people, depending largely as it does on thrift and industry. In most places considering the large population cultivation is none too good. Agriculture suffers through lack of organization and equipment. Owing to the necessity of protection against thieves, in most parts the people live in villages, many of them at considerable distances from their land. Again, the Decean trap, sticky in the rains, hard and sub-divided without any regard for convenience, crambly in the dry weather and holding its Preparatory tiling generally consists of repeated ploughings, followed as seed time ap-Agricultural Capital and Equipment.—
India is a country of small holdings and the beam. The Rabi crops generally receive a varying in size from an extension of the people cultivate patches more thorough cultivation than the Kharf, a Tarying in size from one to eight acres. Large inner seed bed being necessary owing to the holdings are practically unknown, and are mainly dryness of the growing season. Manure is

AGRICULTURAL STATISTICS.

						•	-	
	1909-10.	1910-11.	1011-12.	1912-13.	1913-14.	1014-15.	1915-16.	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
Net Aren by professional survey	624,358,714 81,180,511	618,581,009 80,613,070	618,605,038 80,851,368		610,594,406	82,034,743	619,520,501 85,079,109	
Not available for cultivation Cultivable wasto other than fallow	157,627,145	149,991,347	140,605,179	146,026,582	147,169,102	115,079,507	010,010,011	
Net area sown with crops	45,335,412 222,011,547 41,581,436	100'500'0F. 100'500'0F.	54,869,245 215,031,683 40,670,142	49,760,388 221,105,602 15,559,074	52,620,402 210,101,773 46,936,010	47,193,925	201,778,167 46,897,715	6
Area under Food-grains—								
Rico Whonk Barloy	78,730,642 22,760,018 9,104,753	78,521,391 24,307,099 7,840,222	76,636,887 25,025,236 8,432,503	78,752,493 23,861,195 7,120,335	76,907,895	77,668,589	20,571,276 20,871,376 8,012,067	
Jawar Salin Ragi	21,801,034	21,184,101 15,510,225 4,288,027	18,386,332 13,002,038 4,206,207	20.967,730 10,269,901 4,455,537	21,405,507 15,385,537 4,370,376	21,223,388 16,041,561 4,250,788	14,810,021 4,813,017	
Mairo Gram Other grains and pulse	6,857,925 13,153,400 31,306,082	6,311,627 13,916,210 32,069,948	5,591,349 14,128,881 29,507,101	0,316,089 12,492,348 30,907,560	6,166,939 9,296,672 28,149,109	6,187,720 14,361,490 31,411,580	6,705,325 10,558,500 31,111,723	
Total Food-grains	203,001,280	204,103,413	105,097,431	201,372,578	191,573,393	201,504,550	200,735,037.	
Area under other food-crops (including gardons, ex.).	7,446,923	7,467,584	7,582,432	8,183,490	8,124,800	5,00,002,8	8,207,725	
Area under—Sugar Solled	2,442,033 94,455 525,729	2,540,541 62,874 532,703	2,565,770 04,576 543,563	2,712,085 01,913 557,856	2,707,373 S5,723 5,72,106	2,458,805 56,712 584,370	2,550,008 01,003 593,364	200

and winnowing go on up till the end of May, by better cultivation, In good years the surplus crop is bought up ! putting it on the European market as other supplies are at that time of year scarce. In

The Millets .-- These constitute one of the most important group of crops in the country, supplying food for the poorer classes and folder two best known varieties are Jowar (Sorghum) vulgare) tall growing with a large open brad, and Bajra with a close rat-tail head and thin tion of the two crops follows the quality of the in which case thin seedings are resorted to. The subsidiary crops are harvested as they ripen either before the millet is harvested et: afterwards. The produce is consumed in the country.

Pulses are commonly grown throughout India and the grain forms one of the chief are subject to failure or shortage of yield owing; an immense area. are subject to failure or shortage of yield owing an immense area, to a variety of circumstances among which Linseed requires a deep and moist roll rain at the time of flowering appears to be one and is thus grown chiefly in Bergai, Bihar, of the most important. They are therefore the United Provinces and the Central Promore sultable to grow as mixed crops especially vinces. The crop is grown for reed and not licing the control of a number of the common varieties are of a Being the protect and practically independent of a Nitro, to supply in the soil they withstand. Europe. The yield varies greatly from practidrought and felling good alternation in a careal cally nothing up to 200 or 600 lbs. of seed per rotation. The chief crops under this heading acre. The seed is mainly exported whole but are gram, mash, mune and noth, gram forming a certain amount of oir pressing is done in the are grown, mash, mung and moth, gram forming a certain amount of oil pressing is done in the the main winter pulse crop while the others country.

are grown in the summer. The pulses grow best on land which has had a good deep cultivation. A fine seed bed is not necessary.

For gram especially the soil should be loose.

The forest grown mostly crop. The seed is mostly exported. and well mraied. Indian pulses are not largely exported although they are used to some extent in Europe as food for dairy cows.

Cotton is one of the chief exports from India and the crop is widely grown in the drier parts of the country. The lint

Rains in January and Pebruary are generally, Northern India It is sown breadcast folian beneficial but an excess of rainfall in these taixed with other crops) and from the date of months usually producer rust with a diminution rowing fill the time of picking is practically of the yield. On irrigated land 2 to 4 waterings light to literit. The narrange yield, which does are generally given. The crop is generally not amount to respect than 400 lbs. for acre of harvested in March and April and the threshing seed cotton, could doubtless be greatly increased

Sugarcane.-Although India is not naturat once by exporters and no time is but in ally suited for sugarrane growing, rome of nullibras of arrest are annually soun. supplies are at that time of year scarce. In crop is mostly frown in the submentane tracks years of famines the local price is generally of Sorthern India. The common varieties sufficiently high to restrict exports of juice of fair quality. In India white sugar is not made by the grower nharimply tolls down the fulce and does not remove the melaces. The product called gur or gul is generally sold and concurred as such, although in some parts for the eattle. The varieties vary greatly in product called gur or cul is generally sold quality, height and sultability to various and consumed as such, although in some parts climatic and soil conditions. Perhaps the a certain amount of sugar-making is eattled on. The profits, honever, are small owing to the cheappers of imported sugar and there appears to be some danger to the crop if the stem. Generally speaking the lowers require prevent taste for gur were to die out. The better land then the bajras and the distribution has been taken up by Government and a cane-breeding station has been recently Neither for jowns nor bajen is manure opened near Coimbatore in Madras with the applied and cultivation is not so thorough as for object of raising sectling cases and otherwise wheat, the main objective being to produce improving the supply of case sets. A number a flue seed bed. As the crop is generally rown of sugar factories of a modern type have been In the beginning of the monsoon it requires set up within recent years in hihar and the to be thoroughly weeded. It is often grown United Provinces. The chief digitality seems mixed with the summer pulses and other crops; to be the obtaining of a sufficiently large supply of caues to offert the heavy capital charges of the undertakings.

Ollsceds.-The crops claudfed under this heading are chiefly recamum, linseed and the cruciferous offseeds (rape, mustard, etc.). Although ollseeds are subject to great fluctuaindia and the grain forms one of the chief than in price and the crops themselves are foods of the people. Most kinds do well but more or less precarious by nature—they cover has applied to falling on the contract to the cover of the cover

The Cruciferous Oilseeds form important group of crops in Northern India where they grow freely and attain a fair state of development. They are one of the most useful crops in the rotation. They occupy the land for a few months only, and owing to their dense growth leave the soil clean and in good the drier parts of the country. The lint dense growth leave the soil clean and in good from Indian cotton is generally speaking short; condition after their removal. A number of and coarse in fibre and unsuited for English; condition after their removal. A number of and coarse in fibre and unsuited for English; condition after their removal. A number of and coarse in fibre and the continent are the chief in habit of growth, time of ripening, and size and quality of seed. The best known are rape, toria, and sarron. The crop is generally sown light rainfall for its proper growth. Rain immediately after sowing or during the flowering period is injurious. In parts of Central and Southern India the seed is sown in lines time of flowering and sometimes suffers conand the crop receives careful attention but over

1					·	distics.
1915-16.	1	Acres.	1. 151,019 4,125,046 4,015,1546 172,275 1075,075	11,235,589	11. 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0	656,480,000 571,652,000 571,847,000 7,310,000 1,7310,000 1,02,100 1,02,100 1,03,100 2,3,000 2,031,000
1011-15.		лися.	9,525,132 4,178,126 4,111,371 4,185,657	15,333,591	1,000 1,000 1,000 1,100 1,100 1,000	11,810,000 10,23,000 11,20,000 10,113,000 10,113,000 11,210,200 131,000 131,000 131,000 131,000 131,000 131,000 131,000 131,000 131,000 131,000 131,000 131,000
1013-1-1	- Tarray	Acres.	9.068,801 4,078,855 4,083,135 4,027,236	14,658,027	15,814,563 1,175,585 015,203 169,221 170,603 1,001,710	275, K00,000 8,213, 600 8,213, 600 8,000,000 8,000,000 1,037, 500 1,037, 500
1010.19	1012-14	Acres.	3,125,067 4,161,015 3,655,000 4,001,368	11,935,780	14,138,497 3,323,951 805,911 227,016 107,314 901,726	560,700,000 \$23,000 \$23,000 1,010,000 5,112,000 1,211,20
07	1911-12.	Acres.	2,763,222 4,174,311 4,223,568 4,333,701	10,101,805	14,508,189 3,090,827 683,868 274,476 220,474 998,943 4,077,024	001,480,000 0,021,500 1,280,001,700 1,281,700 1,321,700 1,325
	1010-11.	Aores.	2,512,032 4,211,820 3,803,746 3,911,623	14,534,230	14,447,690 2,823,609 2,823,119 2,821,119 1,007,082 4,831,742	557,038,000 10,150 203,203,000 7,032,000 7,032,000 1,250,100 511,800 10,000 10,
	1000-10.	Acres.	2,116,281 4,740,002 4,093,590 3,675,001	14,025,057	13,172,188 2,756,820 824,600 374,900 1,013,352 4,748,809	527,130,000 34,033,600 24,033,600 4,718,000 7,900,600 1,770,200 560,800 4,600,800 1,770,200 560,800 4,600,800 1,770,200 560,800 4,600,800 560,
			::::	:		crc
			::::	:	* * * * * * *	400 %
				Total Ollseeds	* * * * * * * * *	
				I OIL		::::::::::::::::::::::::::::::::::::::
		1	Ares under Olisceds— Lineced Sesamum (til) Rape and Abustard Other Olisceds	Tota	Area under—Cotton Cotton Linko Other fibres Linkliko Copium Trobneco Troduc crops	Estimated yield* of— Rico (Graned) Wheat Coffee Tra † Coffee July Linseed Rape and Metraed Sesamum (ill) Groundrut Groundrut Indigo

AGRICULTURAL STATISTICS OF DIRECTOR ASSESSED

 The acreage of crops given in this table is for British India only, but the estimated yield includes the crops in certain of the Native States.
 The statistics of the production of ten are for calendar years. # Return of production discontinued. is very subject to injury from rain and great care has to be taken in the drying. The produce is largely exported whole, but there is a considerable amount of local oil-pressing—the cake being in demand for feeding purposes.

Jute. Two varieties of the plant are cultivated as a crop, Capsularis and Olitorius. Jute growing is confined almost entirely to and Olitorius. Eastern Bengal, in the Ganges-Brahmaputra Delta. The crop requires a rich moist soil. Owing to river inundation this part of India receives a considerable alluvial deposit every year and the land is thus able to sustain this The crop exhausting crop without manure. The crop is rather delicate when young, but once established requires no attention, and grows to a great height (10 to 11 feet). Before ripening the crop is cut and rotted in water. After about three weeks submersion the fibre is removed by washing and beating. At the present high range of prices jute may be considered to be the best paying crop in India.

Tobacco is grown here and there all over the country chiefly, however, in Bengal, Bihar, Bombay. Madras and Burma. Of two varieties cultivated Nicotiana Tabacum is by far the most common. Maximum crops are obtained on deep and moist alluvium soils and a high standard of cultivation including liberal manuring is necessary. The crop is only suited to small boldings where labour is plentiful as the attention necessary for its proper cultivation is very great. The seed is germinated in seed beds and the young plants are transplanted when a few inches high, great care being taken to shield them from the aum. The crop is very carefully weeded and hoed. It is topped after attaining a height of, say, 2 ft., and all suckers are removed. The crop ripens from February onwards and is cut just before the leaves are become brittle. By varying the degree of fermentation of the leaves different qualities of tobacco are obtained. A black tobacco is required for Hooka smoking and this is the ated.

most common product but a certain amount of vellow leaf is grown for eigar making.

mainly of cattle. Live-stock .consist buffaloes and goats, horses not being used for agricultural purposes. Sheep are of secondary Importance.

For draught purposes cattle are in more general use than buffaloes especially in the drier parts of the country, but buffaloes are very largely used in the low lying rice tracts. For dairying buffaloes are perhaps more pro-fitable than cows as they give richer milk and more of it: but they require more feeding. The poorer people depend largely on the milk of goats of which there are an enormous number throughout India. Cattle breeding is carried on mainly in the non-cultivated tracts in Central and Southern India, Southern Punjab and Rajputana, where distinct broads with definite characters have been preserved. The best known draught breeds are Hansi, Nellore, Amritmehal, Gujrat, Malvi, and the finest milk cows are the Sahiwal (Punjab). Gir (Kathiawar) and Sind. Owing, however, to the encroachment of cultivation on the grazing areas well-bred cattle are becoming scarce. and some of the breeds are threatened with Efforts to improve the quality of the cattle in the non-breeding districts by the use of selected bulls have hitherto been frustrated by the promiscuous breeding which goes on in the villages.

Dairying.—Though little noticed, dairying forms a very large indigenous industry through-out India. The best known products are native butter (ghee) and cheese (dahi). During recent years a considerable trade in tinned butter has sprung up in Gujrat (Bombay Presidency). While pure ghee and milk can be procured in the villages, in the towns dairy products can scarcely be bought unadulter-

AGRICULTURAL PROGRESS.

The Agricultural Departments in India as they now exist may be said to be a creation of the last ten years. There have for a good many years past been experimental farms, under offi-cial control, in various parts of India, but they were in the past to a large extent in the hands of amateurs, and the work of the Agricultural Departments, with which all the major provinces were provided by about 1884, was in the main confined to the simplification of revenue settlement procedure and the improvement of the land records system. In 1901 the appointment of an Inspector-General of Agriculture gave the Imperial Agricultural Department for the first time an expert head, and placed the Government of India in a position to enlarge the scope of their own operations and to co-ordinate the work being done on independent lines in various provinces. At that time the staff attached to the Government of India consisted of an Agricultural Chemist and a Crytogamic Botanist, while trained Deputy

in Madras, Bombay and the United Provinces and the Economic Botanist in Madras was the only provincial representative, of the more specialised type of appointments. Within the next few years a number of new appointments were made, so that by March 1905 there were altogether 20 sanctioned agricultural posts; of these seven were Imperial, including a number of specialist appointments attached to the Agricultural Research Institute and College, the establishment of which at Pusa in Bengal was sanctioned in 1903. A great impetus was given to the development of the Agricultural Departments by the decision of the Government of India in 1005 to set apart a sum of 20 lakhs (£133,000) a year for the development of agricultural experiment, research, demonstration and instruction. Their ultimate aim, as then expressed, was the establishment of an experimental farm in each large tract of country in which the agricultural conditions are approxi-Crytogamic Botanist, while trained Deputy mately homogeneous, to be supplemented by Directors of Agriculture were employed only numerous small demonstration farms; the

ARTA, CUSTIVATED and UNCULTIVATED, in 1916-16; in Acres.

			Deprer.		NEI	Anes,
Administrations.	Area seconting to Survey.	Frudatory and Tributary States.	Area for which no returns exist.	Total.	According to Survey.	According to Village Papers.
Benzal Madras (Prest-	53,031,501 07,537,250 85,017,500	8,451,520 6,791,552 37,004,810	****	3,451,620 6,790,652 37,001,800	60,470,091 01,046,728 49,012,700	50,470,081 50,534,074 49,612,700
Rombay dency. Sind United Agra	53,070,070 57,342,219	8,572,000 4,845,850	****	3,872,000 4,315,232	50,009,070 52,096,097	50,098,076 52,781,853
vinces Oudh Bilhar and Orissa Punjab Upper	15,500,720 71,532,817 80,307,319 57,178,031	18,331,720 21,511,381 3,375,130	****	19,331,720 21,511,391 3,375,130	15,506,720 53,195,127 61,855,935 53,802,903	15,450,063 53,193,127 60,084,237 53,802,903
Burma. { Lower Central Provinces	55,201,769 72,552,216 11,374,577	10,067,343	* * * *	10,000,313	11,374,577	55,201,750 52,507,401 11,374,577
North-West Fron- tier Province. Almer-Merwara	30,275,491 8,678,533 1,770,021	7,909,920 140,800	****	7,060,020 140,800	31,305,574 8,437,733 1,770,021	31,305,574 8,571,401 1,770,021
Delhi Coorg Manpur Pargana*	366,565	****	****		360,505 1,012,260 31,346	360,605 1,012,260 31,346
Total	740,277,205		****	129,756,401	010,520,804	010,338,547

	CULTIVA	TED.	UNCULTI	VATED.	
Administrations,	Net Area actually Cropped.	Current Fallows.	Culturable Waste other than Fallow.	Not available for Cultivation.	Forests.
Bengal Madras Presi	21,451,200 34,448,793 27,058,321	5,393,604 8,413,525 6,176,749	5,140,637 11,020,617 1,262,041	11,233,060 22,500,102 5,623,250	4,258,451 13,013,547 8,522,345
United Agra	3,254,405 20,892,600	5,872,490 2,052,172	6,223,667 7,402,159	13,031,083 7,701,748	· 811,341 8,730,178
vinœs Oudh Bihar and Orissa Punjab Upper	0,350,120 25,047,900 22,348,690 4,970,084	457,813 4,617,417 6,331,323 4,383,170	2,830,335 0,838,570 10,700,414 10,521,817	2,216,244 0,769,330 12,297,147 21,023,342	013,551 5,914,904 2,404,629 12,893,481
Burma Lower Central Provinces Berar Assam North-West Fron-	9,230,880 18,390,206 7,029,976 6,815,393 1,924,389	730,850 2,187,285 1,110,504 2,401,647 938,427	14,901,615 13,205,207 142,640 14,436,209 2,695,777	4,047,002 952,674	7,176,023 14,676,711 2,138,627 3,051,823 360,004
tier Province. Ajmer-Merwara Delhi Coorg Manpur Pargana*	201,313 202,379 140,167 7,254	286,104 27,408 170,163 323	247,985 03,573 10,207 7,207	848,837 60,121 334,225	96,783 0,761 357,418 15,688
Total	221,778,107	51,731,002	113,819,919	143,030,200	85,079,100

[.] A British District in Central India.

creation of an agricultural college teaching up to a three years' course in each of the larger provinces; and the provision of an expert staff in connection with these colleges for purposes of research as well as education. The eventual cost, if was recognised, would largely exceed 20 lakis a year. The Pusa Research Institute and College afone has cost nearly £150,000 including equipment. A part of the cost was met from a num of £20,000 placed at Lord Curzon's disposal by Mr. Philips, an American visitor to India. This example of munificence has reently been followed by Sir Sassoon J. David, who placed the sum of £53,000 at the disposal of the Government of Bombay for the establishment of vernacular agricultural schools and the Improvement of agricultural methods, in commemoration of the visit of Their Imperial Majestics to India.

Record of Progress.

At the beginning of 1912 there were over 40 Posts in the Indian Agricultural Service, be-rides that of Inspector-General, which was abolised at the end of the year 1911-12, the rapid advance of the provincial departments having rendered its continuance unnecessary. The officers serving directly under the Government of India included the Director of the Pu-a Institute, who was also Principal of the Agricultural College, a cotton specialist, two inprologists, three entomologists, two agricultural chemists, and an economic botanist. Some of these were supernumerary officers undersoing training. The provincial agricultural descriptions of the second control of the tural departments vary in strength. Generally speaking, each of the larger provinces has at least a D-puty-Director of Agriculture (most Irovinces have two), an Agricultural Chemist, and an Economic Botanist. In several province the principal-hip of the Agricultural College is a separate appointment and among the remaining officers are a fibre expert in Eastern Bengul and Assam, and a "scientific offierr for planting industries in Southern India" in Madins. The Government of Madras have a mycologist and an helr own. The posts entomologist 10 their own. so far terred to have hitherto necessarily been filled almost exclusively by the appointment of train-el specialists from the United Kingdom. There are also in the various provinces a considerable number of locally appointed. Assistant Profesore (in the Agricultural Colleges), Assistant Agriculturiets and Entomologists, Agricultural Lapretors, Superintendents of Farms, etc., and subordinate offers. It is an essential lost of the scheme adopted that facilities for the test agricultural training shall be made available in India, in order that the country may become will-supporting, so far as possible, in mand to the exemilie development of agricultural methods on lines suited to local conditions. Provincial agricultural colleges, which are also research stations, have within the last for years been established in Madras, Bombay Beneral, the United Provinces, the Punjab and the Central Provinces. The Central College at Proxis intended to proside for more advanced training, and pives also short tractical courses to sald ets not at rement taught in the pro-

creation of an agricultural college teaching up to a three years' course in each of the larger provinces: and the provision of an expert staff in connection with these colleges for purposes of in connection with these colleges for purposes of research as well-as-cducation. The eventual cost, it was meeting, would largely exceed 20 lakins a year. The Pusa Research institute and Colleges are the supervision of the Agricultural Department: but in all the larger provinces except the United Provinces has cost nearly £150,000 including equipment. A part of the cost was met from of Director of Land Records.

Machinery.

The rapid extension in India in recent years of the use of machinery in connection with agriculture and irrigation has created a demand for expert assistance to meet which Agricultural Engineers have since the end of the period under review been appointed in Bombay and the United Provinces to advise cultivators as to engines, pumps, threshing machinery, etc. An important advance in the direction bringing the provincial agricultural departments more closely into touch with one another was made in 1905 by the creation of the Board of Agriculture. The Board, which includes the Imperial and provincial experts, meets annually to discuss the programme of agricultural work, and agricultural questions generally, and makes recommendations which are submitted to the Government of India for consideration.

Work of the Departments.

The work of the Agricultural Department has two main aspects. On the one hand, by experiment and research, improved methods or crops are developed, or the means of combating a pest are worked out; on the other hand, ascertained improvements must be demonstrated and introduced as far as possible into the practice of the Indian cultivator. There is essential difference between agricultural departments in the East and in the West in that, whereas the latter have arisen to meet the spontaneous demands of the cultivators of the soil, the former are entirely the creation of a government anxious to give all the assistance it can to its agricultural subjects. The demand for improved agriculture has not in India, except in special cases, come from the cultiva-tor, and it is necessary for the Department to put forth every effort, first to ascertain the needs of the cultivators and then to demonstrate how they can most effectively be met. It is only a few years since work on modern lines was commenced by the reorganised agricultural departments, and, in the first place, a great deal of spade work had to be performed.

Cotton.

Cotton from the first received much of the attention of the new departments. Very striking results have already been achieved, and more particularly with Cambodia and other exotic varieties. The second line of improvement is the separation and selection of indigenous varieties. In Madras the cflorts of the Arricultural Department have resulted in the spread of the local improved variety called Kerunganyin the Tinnevelly District and white-seeded Tellapathi cotton in Kurnool

AREA, UNDER IRRIGATION IN 1015-16: IN AGRES.

	1		AREA IRRIGATED.				
Administrations.	Total Area Cropped.		By Car	nais.			
	Croppedi	Government		Private.	By Tanks,	By Wells	
Bongal Madras Bombay { Projidency Sind		11 3,51 02 14	3,315 3,981 1,956 5,438	179,133 217,556 71,733 22,43	3,837,683 126,15	1.560.379	
United Pro- { Agra vinces. Oudh	1 40 000 0	2,50	8,470	80,12	55,08	4,207,978 1,507,597	
Bihar and Orissa Punjab Upper Burma Lower	25,903,7 5,521,2 0,267,0 20,710,5	98 48 14 28 8	6,050 4,317 7,873 297 8,532	527,094 482,755 204,534 23,026 2,400	10,000 155,974 8,010	039,421 3,605,404 14,510 2,608	
Assam North-West Frontier Province.	6,360,8 2,227,9	55 295 53 295	120 8,311	139,356 453,334	• • • •	94,553	
Ajmer-Merwara Delhi Coorg Manpur Pargana	225,8 141,6	15 13 01 50	1,563 2,635	••••	15,355 1,110 1,509	25,616	
Total .	254,881,9	18,37	8,418	2,353,575	6,860,565	12,550,423	
,	AREA IRR	IGATED.		CROP	S IRRIGATED.*		
Administrations.	Other Sources.	Total Arca Irrigated.	Whee	oth Cereals Pulse	and lancous	Other Crops.	
Bengal	841,533	2,209,036 9,974,131 980,212 3,200,125	25, 5, 210, 544,	037 357 10,042 480 524 479 2,541	,348 705,775 ,689 1,186,826 ,247 209,733 ,747 50,670	033,523 457,318 164,453 414,672	
United Pro- { Agra vinces. { Oudh	1,624,008 1,201,626	8,485,752 2,709,223	2,606, 1,158,	683 1,280	67,655	1,396,748 260,418	
Biliar and Orissa Punjab Upper Lower	133,442 133,065	4,497,897 11,676,894 995,965 163,112	4;773,	082	,983 8,912	148,707 3,512,902 842 3,721	
Central Provinces. Berar Assam North-West Frontier Pro	214,070	513,364 37,503 384,152 931,262		7711	,485 69,722 697 25,731 ,537 9,225 ,740 57,320	3,261 5,254 2,370 106,669	
vince. Ajmer-Merwara Deini Coorg Manpur Pargana		69,613 59,289 4,131 141	22,	420 35 035 19 100 4	035 25,394 876 0,414 134 1	10,437 7,637	
Total	6,754,734	45,897,715	9,756,	30,131,	221 3,850,959	6,630,252	

[.] Includes the area teriented at both harvests.

both of those varieties having been selected from among the infetures ordinarily grown in the dictricts. A system of seed distribution was gradually built up, and now, after five or six years' work, there is a vast area under Korm juny. The Department supplies pure S.ed. to contract seed growers and buys the seedcetton from these min, glas it, and arranges the distribution of reed through village depots. In Bambay, two have been selected as the best out of many hybrids and pure line cottons bred and tried for many years on the Surat farm. They give a distinct advantage both in quantity and quality over the ordinary local cotton, and promise to sell at rates 5 per cent. higher. In another part of the province arrangements are being made to distribute on a large scale ered of another improved form, which can he grown, it is estimated, over 1,200,000 acres. In the Southern Maratha Country, Broach cotton, introduced by the Department, is grining favour. There is said to be scope for 250,000 acres, and the increased profit to the cultivator is estimated at £1 or more per acre. In the Central Provinces also, two Indiagnous varieties have been selected. In the United Provinces seed of a superior variety is being distributed. Wheat also has been the subject of prolonged experiments. One of the first results of the investigations carried out at Pusa, was the demonstration of the fact that hardities with milling and baking qualities similar to those of the best wheats on the English market could be grown to perfection in Bihar. By the application of modern methods of . erlection and hybridication these high grain qualities were successfully combined with high

vation of which had at the beginning of the decade fallen off, owing partly to the prevalence of a fungold disease and partly to deficient rainfall. Exotic varieties with a better yield have been introduced in Bombay, and in Burma cultivation has advanced with extraordinary rapidity.

Another success of marked importance aclile ved by the efforts of the provincial agricultural departments is the introduction of agricultural implements and machinery suited to the conditions of different provinces. Information and assistance in regard to the choice of implements suitable for various conditions has, under present circumstances, to be interpreted and brought home to Indian cultivators by a more direct agency than business firms, and the agricultural departments have therefore to do s good deal of this work. They have succeeded already in introducing various kinds of implements in different parts of the country. Every assistance is given in the use and repair of implements recommended. Up to the present, the departments perform to a certain extent the functions of dealers in implements, but it is becoming difficult to control the work as the area covered by the introductions is gradually becoming large, and a need for the development of co-operative societies is felt. In Bombay, the Department has introduced ploughs of various patterns and is selling a larger number each year. In some provinces from ploughs are becoming very popular. The possibilities of improved harrows, cultivators, and clod-crushers are also receiving attention.

Filling power, rust-resistance, and strong under the chairmanship of Mr. J. MacKenna, I. C. S., is now taking evidence in India on the Another crop with which considerable success; general question of improving the staple and has been attained is Ground-nut, the culti-, marketing of the Indian cotton crop.

TEN YEARS' PROGRESS.

In 1915, Mr. James Mackenna, I.C.s., Di-) crop improvement have naturally been dealt rector of Agriculture in Burma, published a with first; but given more men and more money frochure in which he reviewed the progress all the crops of India will be taken up. in Agriculture in India in the last ten years. In this, reviewing the effects of the work of the new Agricultural Departments, he said :-

Ir lian workers of 1905-158 in all-now number 666. Their labours are eene ptrated and coordinated; they now work on general schemes of development. Farms and demonstration plats, formerly scattered and disconnected, have . intrased from 25 to 374, and work on them is conveniented on the wain problems, and not distipated as used to be the case over a number of subsidiary and unimportant enquiries.

As a result the Department can elsim credit for a front advance in general appleultural

" Money spent on agriculture is a good investment, but material results are difficult to gauge. The Agricultural Departments are now relindustry threatened by destruction may be
the administration. The few Luropean and
the lindustry threatened by the discovery and application of
the property of the luropean and
the property of the luropean and the property of the property of the luropean and the luropean a ment of the palm industry and areca-nut industry of Madr s and the protection of the potate crop of Patna are illustrations of this kind Again, there are the direct gains following the introduct on of new or improved crops, implements, well-boring and improved methods of cultivation. We may, at a conservative ceti-mate, claim that the increase to the value of the agricultural products of India as a result of the labours of its Agricultural Department: for a recat advance in general agricultural is already about 3 first Agricultural Department; its already about 3 forces of rupees annually, provide. Collural and manufal problems, or over £2,500,000. This is the result of only that leen improved and adapted, or better that every year will show a progressive inclination of the provided in the control of such as the provided in the provided and substantial on agriculture which has risen from Rs. 8,61,124 for the provided in the provided at the general principles of £312,013 in 1901-15.



Course	1 5 2 1 2	Profest antige en	4739	16+ 12	45-014

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Adequalistrate put	Dilora.	7	€ office,	Tobsec.	Ithir Impr and Nat- cottes,	l'older Creps,
Perest Hadras Fombay	1 + 1	161,761	24,481	#10,850 #10,416 #1,515	4,0.00 122,500 27,522	109,600 303,401 1,615,394
United Pro- April		ेंग,स्वर	::	in ps. rejois	143 1,970	9,660 1,610,151
Pitter and Orlina	2.22 2.44 2.44 2.45	2,104		10,100 115,100 55,510 55,521	1,450 777 1,107	170,034 09,500 117,771,0 11,000
Central Provinces Berar Assam		2-7,0-2	1	57,423 17,414 14,414 8,514		2.60- 415,617 302
North-West Frontier Pro- vince, Almer-Merwara Delhi Coorg		100	42,421	1,000 1,013 10	40 237	08,344 735 10,518
Mangur Pargana	1-2,030	893,564,	01,001		107,101	7,070,259

	Fruitsand Vezetabe	Mite-Il: Crop		Total	Deduct Area	Net
Administrations,	Including Ro-t Crops.	Food.	Non- Food,	Area Cropped.	cropped inore than once.	Area Cropped.
Bengal	658,500	320,700	270,800	29,034,300 30,201,011	4,589,700	24,454,200
Madras (Presidency	1,120,476 601,617	12,320 3,258			4,755,218 011,278	31,445,703 27,058,321
Bombay ⟨			1			1
Sind	41,212	101,570	37,308	3,600,823 830,913	352,328 6,035,317	
United Pro- Agra	302,172	101,370	6,200	032,030,013	9,055,411	20,002,000
vinces, [Oudh	155,000	1,697	574		3,311,895	
Hiliar and Orlaha	835,400		219,800	31,749,800	6,800,900	
Punjab	233,402	40,550			3,555,089	
Burma Upper	635,037	2,307	4,012	5,521,208	545,214	4,070,081
Lower	454,440	14,170	141,570	9,207,614	27,734	0,230,860
Central Provinces	09,401	1,400	887	20,716,528	2,320,232	18,300,200
Berar	14,086					
Assam	420,767			(c)0,360,805		
North-West Frontier Pro-	17,726	24,643	1,098	2,277,953	363,585	1,024,388
Alman Mamuana	478	4,215	2,439	330,515	30,202	291,313
Delhi	5,000		418	225,313	22,034	202,370
Coorg	5,741	**.		141,501	1,344	140,157
Manpur Pargana		(a)	19	7,750	400	7,254
-						
Total	5,697,594	1,088,297	1,006,098	254,881,980	33,103,810	221,778,167

⁽a) Included under non-food crops.
(b) Includes 342,195 acres for which details are not available.
(c) " 128,000 " " " "

The factor force of his his his that at a to it as a second proof thatfor atomas from the west-ACCOUNTY OF THE CONTROL OF THE CONTR Albert of Intia tin menergy wents and racts NEAR COLD ON THE MESTER OF THE AND THE STATE OF THE STATE is them to the strike of the property of the p

producted dry meather presails.

Monsoons,—The subject or all in the meteorology of in its is the alternation of the *minte known as the summer and elect grane thing. Daring the winter more sin the winds are of confinental origin and hence, dry, One wes-ther, clear skies, how hamility and little air moreover are the characteristic features of this thann. The summer tains cease in the pro-vinces of the Scitti-West Printle Province and the Punjsh about the middle of September and the fully washed the middle of regrenties after which could vectorly an a hortherty which sit in over that area and the weather horomes fresh and pleasant. These fine weather conditions extend showly entered and continual to that by the middle of October, they embrace all contents. all raits of the country except the southern half of the Peninsia, and by the end of the real bare extended to the whole of the Indian includes are, the rains withdrawing to the Equatorial Relt. Thus the characteristics of the cold weather from October to February over India are:—Westerly winds of the tem-Perate zone over the extreme north of India; to the south of these the northeast winds of the winter monson or perhaps more properly the north-cast Trades and a gradually extendlng area of fine weather which, as the season processes, finally embraces the whole Indian land and sea area. Two exceptions to these land and sea area. Two exceptions to these now weather conditions exist during this period, etc., the Madras coast and the north-west of India. In the former region the north-east winds which set in over the Bay of Bengal in October coalesce with the damp winds of the retreating summer moneous, which current curves round over the Bay of Bengal, and, blowing directly on to the Madras coast gives to that region the wettest and most disturbed westlers of the shele year, for while the total weather of the whole year, for while the total rainfall for the four months June to September, i.e., the summer monsoon, at the Madras Observatory amounts to 15.36 inches the total rainfall for the three months October to De-cember amounts to 29.48 inches. The other region in which the weather is unsettled, during this period of generally settled conditions, is North-west India. This region during January, February and part of March is traversed by

The first term of a small efficiency of the second state of the second state of these properties. The great last area of these the second state of ar his entry years mustration at all are recorded.
For a third years, however, to Neithern India
part is of fire weather allerance with periods
of directly weather (security) during the grange at their station) as I light to to eletate and even heavy rath occurs. In the cash of Post are at the total rabifalt for the four is pather Possest of the top, and just to big licher while the total full by the four mouths, Jund to September, is \$100 inches, thorough that the ratifal of the where is, aboditely, prester to this earlie, than that of the summer more tion. Three two periods at subsidiary "galas" are at the preprint exclusion importance. The fall is Madravir, as strong at over, of constitutation estimataments, it is that of North-nor Lindia

June form a period of rapid continuous increase of tengerature and decrease of barometric pressure throughout India. During this period there occurs a steady france-tree northward of the area of greatest leag. In March, the maximum temperature, elightly executing 100, occur in the Decean; in April the area of maximum temperature, between 100° and exceeding 105% lies over the south of the Central Prosloves and flujent; in May maximum tem-peratures, sarving between 1059 and 1109, presail over the greater part of the interior of the country while in June the highest mean of the country while in June the figure mean maximum temperatures exceeding 110° occur in the Indus Valley near Jacobabad. Temperatures exceeding 120° have been recorded over a wife and lacluding Sind, Rajputans; the West and South Punjah and the west of the United Provinces, but the highest temperature hitherto recorded is 120° registered at Jacobathad on June 12th, 1807. During this period of rising temperature and diminishing harometric pressure, great alterations take place in the air movements over India, including this province. ing the disappearance of the north-cast winds of the winter moneon, and the air circulation over India and its adjacent seas, becomes a local circulation, characterised by strong hot winds down the river valleys of Northern India winds down the fiver valleys of northern India and increasing land and rea winds in the coast regions. These land and sea winds, as they become stronger and more extensive, initiate large contracts of temperature and humidity which result in the production of violent local storms. These take the forms of dust storms storms. These take the forms of dust storms in the dry plains of Northern India and of thunder and inliktorms in regions where there is inter-action between damp sea winds and dry winds from the interior. These storms are frequently accompanied with winds of excessive force, heavy hall and torrential rain and are on that account very destructive.

By the time the area of greatest heat has been established over North-west India, in the last week of May or first of June, India has become the seat of low barometric pressures relatively to the adjacent seas and the whole character of the weather changes. During

the hot weather period, discussed above, the t winds and weather are mainly determined by local conditions. Between the Equator and Lat. 200 or 350 south the wind circulation is that of the south-east trades, that is to say from about Lat. 310-350 south a wind from south-east blows over the surface of the sea up to about the equator. Here the air rises into the upper strata to flow back again at a considerable elevation to the Southern Tropic or beyond. To the north of this circulation. i.e., between the Equator and Lat. 200 to 250 North, there exists a light unsteady circulation, the remains of the north-east trades, that is to say about Lat. 20° North there is a northeast wind which blows southward till it reaches the thermal equator where side by side with the south-east Trades mentioned above, the air rises into the upper strata of the atmosphere-Still further to the northward and in the im-mediate neighbourhood of land there are the circulations due to the land and sea breezes which are attributable to the difference in the heating effect of the sun's rays over land and sea. It is now necessary to trace the changes which occur and lead up to the establishment of the south-west monsoon period. The sun at this time is progressing slowly northward towards the northern Tropic. Hence the thermal equator is also progressing northward and with it the area of ascent of the south-east trades circulation. Thus the south-east trade winds cross the equator and advance further and further northward, as the thermal equator and area of ascent follows the sun in its northern progress. At the same time the temperature over India increases rapidly and barometric pressure diminishes, owing to the air rising and being transferred to neighbouring cooler regions—more especially the sea areas. Thus we have the southern Trades circulation extending northward and the local land and circulation extending southward about the beginning of June the light unsteady interfering circulation over the Arabian Sea finally breaks up, the immense circulation of the south-east Trades, with its cool, moisture winds rushes forward, becomes linked on to the local circulation proceeding, between the Indian land area and the adjacent seas and India is invaded by oceanic conditions the south-west monsoon proper. This is the most important season of the year as upon it depends the prosperity of at least five-sixths of the people of India-

When this current is fully established a continuous air movement extends over the Indian Ocean, the Indian seas and the Indian Indian seas and the Indian Indian seas from Lat. 20° S. to Lat. 30° N. the southern half being the south-east trades and the northern half the south-west monsoon. The most important fact about it is that it is a continuous horizontal air movement passing over an extensive oceanic area where steady evaporation is constantly in progress so that where the current enters the Indian seas and flows over the Indian land it is highly charged with equeous vapours.

The Current enters the Indian seas quite at the commencement of June and in the course of the succeeding two weeks spreads over the Arabian Sea and Bay of Bengal up to their

extreme northern limits. It advances over India from these two seas. The Arabian sea current blows on to the west coast and exceping over the Western Ghats prevails more or less exclusively over the Peninsula, Central India, Rajputana and north Bombay. The Bay of Bengal current blows directly up the Bay. One portion is directed towards Burma, Last Bengal and Assam while another portion curves to south at the head of the Bay and over Bengal, and then meeting with the barrier of the Himalayas curves still further and blows as a south-easterly and casterly wind right up the Gangetic plain. The south-west monsoon continues for three and a half to four months, riz., from the beginning of June to the middle or end of September. During its prevalence more or less general though far prevamence more or less general though lar from continuous rain prevails throughout India the principal features of the rainfall distribution being as follows. The greater portion of the Arabian Sea current, the total volume of which is probably three times as great as that of the Bengal current, blows directly on to the west coast districts. Here it meets an almost continuous hill range, is forced into assent, and rice heavy with allies forced into ascent and gives heavy min alike to the coast districts and to the hilly range, the total averaging about 100 inches most of which falls in four months. The current after parting with most of its moisture advances across the Peninsula giving occasional uncertain rain to the Decean and passes out into the Bay where it coolesces with the local current. The northern portion of the current blowing across the Gujarat, Kathiawar and Sind coasts gives a certain amount of rain to the coast districts and frequent showers to the Aravaill Hill range but very little to Western Rajputana, and passing onward gives moderate to heavy rain in the Eastern Punjab, Eastern Raiputana and the North-west Himplayas. In this region the current meets and mixes with the monsoon current from the Bay.

The monsoon current over the southern half of the Bay of Bengal blows from southwest and is thus directed towards the Tenasserim hills and up the valley of the Irrawady to which it gives very heavy to heavy rain. That portion of this current which advances sufficiently far northward to blow over Bengal and Assam gives very heavy rain to the low-lying districts of East Bengal and immediately thereafter coming under the influence of thi Assam Hills is forced upwards and gives excessive rain (perhaps the heaviest in the world; to the southern face of these hills. The remaining portion of the Bay current advances from the southward over Bengal, is then deflected westward by the barrier of the Hi malayas and gives general rain over the Gangetic plain and almost daily rain over the loweranges of the Himalayas from Sikhim to Kashmir.

To the south of this easterly wind of the Bay current and to the north of the westerly wind of the Arabian Sea current there exist a debatable area running roughly from Hissa in the Punjab through Agra, Allahabad any part of Chota Nagpur to Orissa, where neithe current of the monsoon prevails. In this are the rainfall is uncertain and would probably

slight, but that the storms from the Bay of engal exhibit a marked tendency to advance ong this track and to give it heavy falls of

casional rain.

The Total Rainfall of the monsoon period une to September) is 100 inches over part the west coast, the amount diminishes east-ard, is below 20 inches over a large part of e centre and east of the Peninsula and is ily 5 inches in South Madras; it is over 100 cles on the Tenasserim and South Burma ast and decreases to 20 inches in Upper arma; it is over 100 in the north Assam alley and diminishes steadily westward and only 5 inches in the Indus Valley.

The month to month distribution for the hole of India is :-- .

.. 2.60 Inches May .. 7.10 June11.25 (July .. 9.52 .August ** 6.78 September October 3.15

Cyclonic storms and cyclones are an almost variable feature of the monsoon period. In ie Arabian Sea they ordinarily form at the mimencement and end of the season, viz, ay and November, but in the Bay they form constantly recurring feature of the monsoon nson. The following gives the total number i storms recorded during the period 1877 to 301 and shows the monthly distribution:— Jan. Feb. Mar. Apl. May June

ay of Bengal ... 18 4 0 July Aug. Sep. Oct. Nov. Dec. ay of Bengal 41 26 45 Jan. Feb. Mar. Apl. May June

rabian Sea

July Aug. Sep. Oct. Nov. Dec. 2 .. Arablan Sca 11 1

The preceding paragraphs give an account of the normal procession of the seasons throughout India during the year, but it must be remembered, that every year produces varia-tions from the normal, and that in some years these variations are very large. This is more particularly the case with the discontinuous element rainfall. The most important variations in this element which may occur

- (1) Delay in the commencement of the rains over a large part of the country, this being most frequent in North Bombay and North-west India.
- (2) A prolonged break in July or August or both.
- (3) Early termination of the rains, which may occur in any part of the country.
- (4) The determination throughout the monsoon period of more rain than usual to one part and less than usual to another part of the country. Examples of this occur every year.

About the middle of September fine and fresh weather begins to appear in the extreme north-west of India. This area of fine weather and dry winds extends eastward and southward, the area of rainy weather at the same time con-tracting till by the end of October the rainy area has retreated to Madras and the south of the Peninsula and by the end of December has disappeared from the Indian region, fine clear weather prevailing throughout. This procession with the numerous variations and modifications which are inseparable from meteorological conditions repeats itself year after year.

(For montoon of 1917, see page 324).

Average Monthly and Annual Means of Air Temperature at Selected Stations in India.

Erations on the plans. Toungo Toungo Eliclar Calcuta Durdwan Paten		tion in	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Ang.	Sopt.	Oct.	Nor.	Dec.	Junu-	
:::::	- -		-								_				-	
		_			•	0		0	•	0	•	0	o	0	•	
	:	183	0.00	2-1	81.0	86.7	85.3	81.3	1.08	80.1	81.3	81.4	77.	71.0	73.3	
	:		8.8	00,0	83.1	61.0	33.0	3		000	200	31 G	2:0	9	r:	
	: ,	_	2000	<u></u>	35.	0,0		7.0	200	200	7.10	000	3	5.5	3:	
:	: :	_	12.20	20	80.00	86.7	80.00	000	38	100	2	93	17	200	-00	
	:		8,00	ر د	70.0	80.3	88.0	86.4	83.5	83.1	83.3	70.0	70.1	3		
	-	_	2	67.33	20 02	8 78	610	80 4	91.1	27.2	83.0	C	0	ç	1	
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: : : :	:		_	57.3	0.00	80.0	88.0	03.0	80.1	87.1	818	1.00	6	2.5	e E	
:	;	-	_	50.8	71.0	8	91.4	0.10	92.7	\$.00 \$	800	30	67.1	17		
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ner	: :	_	_	63	0.0	1 4	01.1	0	88	200	22.00	000	55	0.00	9	_
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propaga	:	_	_	24.0	83	2.10	00	80.4	23.7	8	83.5	200	9	. C	250	
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: :	_	_	35	200	200	200	200	3:	9,0	9.5	70.7	23	7.	00.8	70.5	
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:	_	_	07.7	73.6	81.0	30.3	93.0	80.0	36	,	3 3	2.2	12	36	0.1 0.4	
:	_		07.1	65	27.6	82.5	83.8	20.0	200	2.5	2 2	2:	18	9.5	0.0	
:		_	8.00	73.0	80.1	83.0	83.8	78.7	74.0			26.5	2	69	010	
Indi			73.7	77.7	810	88.1	88.0	0	20 0	1	0	1	i		2	
	_	_	8.00	73.0	77.5	20.	78.0	9 a	0 0	3:	3	- 7	2.5	2		_
Hyderabad (Decemb)	:	1,000	2		83.1	83.0	000	0 0	72.0	3.5	15	1	5.5	60.3	5. 2.	
ordud		_	67.5	0.57	70.7	20.0	78.5	-	6		- 0	00	200	36	20	
:	_		73.2	70.0	85.0	80.2	89.0	83.7	80.0	80	80.00	70.1	2.5	35	2. S	



Average Monthly and Annual Rainfall at Selected Stations in India.

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MONSOON OF 1917.

The monsoon of this year was phenomenally vigorous, the total rainfall in the pinius of India as a whole being in excess of the normal by 6.4° or 17 per cent. The largest excess previously on record is one of 5° in 1916.

The Ambian Sea montoon arrived on the west coast at about the normal date and extended into the central parts of the country with the usual rapidity. The Bay current on the other hand appeared in north-east India nearly two weeks before the usual time, ro that in the Punjab and the north-west of the United Pro-· vinces the first burst of the rainy season occurred on June 2nd, about three weeks ahead of the average date. In the interior the currents were not so steady as usual, but except for a short interval from June 21st to the 25th there was no extensive break. In July the monsoon, although of about average strength, was very unsteady and partial breaks in the rains were of frequent occurrence. Despite the absence of cyclonic storms the minfall was concentrated chiefly in Assam, the United Province, cast Rajputana and Central India, to the detriment of the greater part of the Peninsula and of north-west India. An appreciable improvement in the activity of the currents occurred in August, for which month the rainfall over the whole country was 13 per cent. In exercis of the normal. There was a well marked break in the interior of the Peninsula during the first two weeks, but in Northern India rainfull was almost Rainfall was abnormally heavy in continuous. north-west India, and was, as in July, unusually scanty in Berar and parts of the Bombay Decean.

of the disturbances recorded the meet note, worthy was that which caused destructive floods in the Patus and Gaya district in the beginning of the nearth. An exceptionally strong monogon prevailed during September and no long breaks occurred in any part of the country. The mouth was in fact the wettest on record, with an except of 50 per cent, in the rainfall. The activity of the monogon was, as in August, concentrated chiefly in north-west India, but there was also a distinct improvement in Berar and the Boraley Decean. Only two disturbances of Indian origin coursed in the course of the month; these cond of these travelled from near Agra into the north Punjuk and terminated the regular monogon rains in the extreme north on the 25th, about ten days after the average date.

The total rainfall of the period, June to be pleinber, exceeded the average over a large part of the country, the only sub-divisions which failed to receive their proper share belong the Bay J-lande, Lower Burma, Hengal, Orleas, Billiar, Herar and the Hombay Bocan. The deficiency was not however marked except in the Bay Erlands and Herar, where it averaged 20 per cent. In the region of abundant fainfall the except was meet pronounced in the Punjab (16° or 00 per cent.) Raiputana (20° or 108 per cent.), Contral India (11)° or 42 per cent.) and Hyderabad North (12° or 41 per cent.). The monason rains of 1917 were thus expecially noteworthy for their unusual abundance in north-west India and Central India, and for the absence.

The following table gives more detailed information with regard to the rainfall of the period:

					Rain	fall, June to	September 191	7.
	vision				Actual.	Normal.	Departure from normal.	Percentage departure from normal.
Burma Assam Bengal Bihar and Orissa	••	••	•••	** ,	76:3 07:4 53:7	60.0 60.3 60.3	- 0.7 + 7.1 - 2.3	- 1214 - 124 - 1
United Provinces Punjab North-West Front Sind	••	ovince	•••		43·2 33·8 8·7	45.3 20.6 15.7 5.1	+ 0.5 + 6.6 +15.1 + 3.6	+ 18 00 71 50 71 50
Rajputana Bombay Central India Central Provinces			•••	••	23·3 42·7 48·4 45·6	18·4 38·6 31·0	+ 2°4 + 10°0 + 4°1 + 14°4	+ 103 + 103 + 121 + 121
Hyderabad Myzore Madras	••	••	•••		34·4 10·1 30·1	40°0 27°2 15°5 26°3	+ 5·0 + 7·2 + 3·6 + 3·8	+ 28 83 14 + 14
Mean of	Indla	••	1	••	43.2	37-1	+ 0.4	+ 17

The Textile Industry.

India has been the home of the cotton trade from the earliest times. Its cotton, known as white wool, was well known to the ancients, and its cloth was familiar to the West in the days of the overland route. The name Calico comes from the fine woven goods of Calicut, and the products of the Dacca handlooms are still remarkable as the finest muslins human skill can produce.

Indian Cotton.

The exports of Indian cotton began to assume importance with the opening of the sea route. They received an immense stimulus during the American Civil War, when the close blockade of the Confederate ports produced a cotton famine in Lancashire, and threw the English spinners back on India for their supply of raw material. When the war broke out the ship-ments of Indian cotton were 528,000 bales, but during the last years of the war they aver-aged 973,000 bales. Most of this cotton was sold at an enormously inflated price, and induced a flow of wealth into Bombay, the great centre of the trade, for which there was no outlet. The consequence was an unprecedented outburst of speculation known as the "Share Mania," and when the surrender of Lee re-opened the Southern Ports widespread ruin followed. It is estimated that the surplus wealth brought into the country by the American Civil War aggregated £92 millions. then the cultivation of Indian cotton, although interrupted by famine, has steadily increased. For the last season for which returns are available, 1916-17, the total area in all the territories reported on was computed at 21,212,000 acres which marked a net increase of 3,460,000 acres or 10 per cent. on the 17,740,000 acres (revised figure) of the previous year. The total (revised figure) of the previous year. The total estimated outturn was 4,273,000 bales of 400 lbs. as against 3,738,000 bales for previous year, representing an increase of nearly 14 per cent. To this figure may be added some 1,000 bales estimated as the production in Native States in Berar and Orissa which make no return.

Bombay, the Central Provinces and Hydenbad are the chief producing centres. The following table gives the rough distribution of the outturn. The figures are the estimated figures for the past season, and are not exact, but they indicate the distribution of the crop:

Area (acres). Yield (bales).

Bombay (a)		••		5,087,000	1,348,000	l
Central Pro	vinces	& I	erar .	4,401,000	600,000	l
Madras (a)	• •	••		2,288,000	377,000	l
Punjab (a)	••	••		1,171,000	333,000	l
United Pro	vinces	(a)		1,184,000	309,000	l
Sind (a)	••	• •		232,000	74,000	ŀ
Burma	• •	2.0		223,000	45,000	l
Bihar and	Orissa	(6)		69,000	16,000	ŀ
Bengal (a)	••	••	••	73,000	20,000	l.
North-West	Fron	tier	Pro-			ľ
vince	••	••		28,000	6,000	ŀ
Assam				32,000	11,000	ı

	Arca	(aı	cres). Yiel	d (bales).
Ajmere-Merwai	n		47,000	19,000
Hyderabad	••	••	3,200,000	500,000
Central India	••		1,411,000	309,000
Baroda	••		707,000	171,000
Rajputana	••		834,000	119,000
Mysore			126,000	100,000
(a) Including	Native St	at	05.	

(b) Excluding Native States, for which the yield is roughly estimated at about 1,000 bales.

The distribution of the export trade is

indicated in the appended table.

Exports of cotton.—A portion of the Indian crop of the season 1915-16 and a portion of the crop of the season 1916-17 came into statistical consideration in the exports during the year 1916-17. The exports amounted to 8½ million cwts. valued at Rs. 3½ crores against 0 million cwts. valued at Rs. 3½ crores in 1915-16. This represents 3½ por cent. of the total value of raw materials exported from India and 1½ per cent. of the total exports. The exports showed a decrease of nearly ½ per cent. in quantity and an increase of 37 per cent. in value. The average declared value per unit rose from Rs. 28 to Rs. 40 per cwt. or by 42 per cent. on a total increase of Rs. 9½ crores. The distribution of the trade is shown below. The United Kingdom and Japan had larger receipts during the war period as compared with those in the carlier period. The principal purchasers of cotton other than Japan are in normal years Germany, Belgium, Italy, Austria-Hungary and France.

Exports of Raw Cotton.

		,	1915-16. Cwts.	1916-17. Cwts.
United Kingdom			833,628	801,132
-	•	**	000,020	د د د د د د د د د د د د د د د د د د د
Germany	• •		****	* * * *
Belgium '	••	• •	****	
Franco	• •		205,457	264,040
Spain	• •		239,025	253,063
Italy	• •		1,124,106	960,301
Austria-Hungary	'	• •		
China	• •		381,435	336,841
Japan	• •	• •	5,917,663	5,790,848
Other Countries		• •	152,653	91,226

Total ... 8,853,007 8,501,841

Bombay is the great centre of the cotton trade. The principal varieties are Dhollems, Broach, Commas (from the Berars), Dharwar and Coomptas. Broach is the best cotton grown in Western India. Hinganghat cotton, from the central Provinces, has a good reputation. Bengals is the name given to the cotton of the Gangetic valley, and generally to the cottons of Northern India. The Madras cottons are known as Westerns, Cocomadas, Combatores and Tinnevellys. The best of these is Tinnevelly. Cambodia cotton has been grown with success in Southern India.

given a great impetus to cultivation. Government have also been active in improving the class of cotton produced, by seed selection, hybridization and the importation of exotic cottons. Although these measures have met ed india trom an exporting into an importing with a considerable measure of success, they have not proceeded far enough to leaven the whole outturn, which still consists for the most

but it shows a tendency to revert. The high grew so large that it excited alarm in England, prices of cotton realised of recent years have and it was killed by a series of enactments, commencing in 1701, prohibiting the use or sale of Indian calicoes in England. The incountry, and made her dependent on the United Kingdom for the bulk of her piece-goods first attempt to establish a cotton mill in India was in 1838, but the foundations of the industry of a short-staple early maturing variety, was in 1835, but the foundations of the industry were really laid by the opening of the first mill in Bombay in 1856. Thereafter, with occadays of which we have record. This trade causes, its progress was rapid.

The following statement shows the quantity (in pounds) of yarn of all counts spun in all India for the twelve months, April to March, in each of the past three years:—

			-				1914-1	5.	1915-1	6.	1916-17.
	Brr	rish I	NDIA.								
Bombay	• •	••	• •	••	••		448,55	6,493	509,77	0,610	482,147,956
Madras	••	••	• •	••	••		43,03	1,691	44,30	3,310	44,187,107
Bengal	••		••	••	••		31,70	8,798	32,09	6,459	28,568,029
United Pr	rovince	s of A	gra and	Oudh		(a)	50,28	31,135	48,44	4,669	46,177,251
Ajmer-Me	erwara		• •	• •	••		(b)	••	3,55	4,452	2,576,103
Punjab	••	••	••	••	٠.	(c)	6,81	13,549	4,73	9,520	3,749,832
Delhi	••	••	••	••	••		(đ)	••	2,80	2,305	2,702,886
Central F	rovince	es and	Bernr	••	••		34,56	35,150	37,41	3,174	34,337,717
		,	To	TAL	••		614,9	56,816	683,18	4,699	644,446,901
	Tones	GN TE	REITOR	Υ.					<u> </u>		
Wadh	mon, I wan, K n), Ko	Bhavn Ishen	re, Myso agar, i garh (e : (f), a	Hydera), Gwi	bad, dior.		37,0	27,841	30,20	59,880	36,1 <u>23</u> ,442
		G	BRAND T	LOTAL	••		651,9	84,657	722,4	24,579	680,570,343

⁽a) Includes figures for Ajmer-Merwara.

The spinning of yarn is in a large degree centred in Bombay, the mills of that province producing nearly 75 per cent. of the quantity produced in British India. The United Provinces of Agra and Oudh and Madras produced about 7 per cent. each, while Bengal and the Central Provinces produced 5.5 and 4.7 per cent. respectively. Elsewhere the production is as yet very · limited.

⁽b) Include under United Provinces.

⁽c) Includes figures for Delhi.

⁽d) Included under Punjab. (c) The millin Kishengarh was burnt down in December 1914.

⁽f) The Kolhapur mill stopped work from July 1914.

⁽g) Including the production of one mill only.

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	nn 1	-			1511-15,	1915-16.	1916-17.
7 to \$ \$ \$1.			ine maj	Mar and great the	anne e e emerciale. Angripagnia		Pa Edo Bas
_ 11 -21	•	* *	•	N P	\$65,658,952	97,573,049	22,500,246 24,600,000
41.07	•	•	٠	•	66,112,012	77,107,931	77,591,275
31 m f s	•			.,	1,515,5 5	2.421,C21	# 525,75¢
15 16 43	•	٠.		**	toper	027,223	1,525,775
Myster, 27,	• •	**	••		193,012	59,514	57,724
			Towns.		3:2,1:1,0:2	##C.#42,501	055,600,405

YARN AT ABBIDGBAD.

The everyon ling figure I o Almedat of are as I flows :---

Annual V with Bring 1		-			1914-15.	1915-16.	1916-17.
Nos. 1-19	**		**		2,017,013	7,116,578	1,618,677
11-20	* *			• •	21,010,020	24,454,529	17,007,730
<u>1</u> 21—51	• •	••	• •	• •	20,011,071	44,701,400	45,764,627
21(9			• •	• •	610,070,014	10,540,467	11,178,019
Atore to		• •		**	232,203	60,000	675,589
Warter, Ac.	••	* *	• •	• • 1	4,713	4,052	4,399
		70	TAL		72,457,652	62,020,668	80,200,040

YARN SPUN THEOUGHOUT INDIA.

The grand totals of the quantities in various counts of yarn spun in the whole of India, including Native States, are given in the following table:—

					1911-15.	1915-16.	1916-17.
No 1—10		••			131,000,572	145,306,707	110,509,885
;, 1120	••		••		3(3,326,016	256,187,603	369,560,160
;; 21-00		• •	• •		150,240,091	169,743,636	171,400,037
;; 31—10			••]	18,701,101	18,572,001	21,080,090
Above 40	••	• •			2,252,668	1,062,937	4,577,334
Waster, &c.	••	••	••		475,216	650,662	345,937
			TOTAL		651,094,657	722,424,570	680,570,313

In the only days of the is alle induciny the anomals of it a pulsarious where largely is a contrated on the production of yars, toth for the Orban market, and I is the largely and I refer as the increasing competition of Jay in in the Chon starket, the provide of an indice to be facility. In China and the increasing competition in the price of other competitions in the price of other competition of the accordance to the flat of the provide the flat of the provide the flat of the provide the flat of the price of the property of the flat of the provide the flat of the provide the flat of the flat of the provide the flat of t

ANALYSIS OF WORLD CODES.

The following brief extract is taken from the statement of the quantity for general and that equivalent in yards) and description of worse growle produced to all legies, indicating Satisfiates:—

					1514-15.	1915-16.	1715-17-
Grey and Bleach	d rice	e-ದಾಸರೆ.			ALL THE PROPERTY OF THE PARTY O	The same of the sa	markers on it communities.
Pounds			* 4	** .	210,576,441	207,103,24-	574,554,656
Yards		4.1			N= 1501 111 1	1,001,007,101	3,131,=73,351
coloured piece-gr	0.10-				1		•
Pounds				** 1	61,007,117	41,673,255	\$1,259,974
Yanls.				77.1	155,045,531	346,647,419	411,504,244
Giry and coloure	מוכק לו	s other	than p	ker-			
Pounds				i	3,735,0-7	2,540,552	2,115,215
Docens	**				312.454	C53,340 }	**************************************
Hoslery-	•						
Pounds					2-5,61-1	\$55,677	400,730
Dozens		• •		** (179,373	227,774	216,570
Miscellaneous-					=	- ,,,,,	*
Pounds					511,257	394 443	919,679
Cotton goods mi	T bez	lth sfik	P# 300	n)			
l'ounds					1		42,633
Total—				-			
Pounds	• •			** 1	277,003,000	252,254,235	577,330,522
Yards				- 1	1,103,707,052	1,111,511,230	1,576,471,697
Dozens					C91,55%	874,997	016,243

BOMBAY WOVER GOODS.

The output of worse goods during the three years in the Bombay Pre-liency was as follow-(The weight in pounds represents the weight of all worse goods; the measure in yards represent the equivalent of the weight of the grey and coloured piece-goods.)

						1914-15,	1915-16.	1016-17.
Pounda Yarda Dozens	**	••	**	•••	••	020,659,012 020,659,396 600,180	247,497,209 1,102,459,745 675,169	730,517,667 671,019,516,1 621,107
							,	

The grand totals for all India are as follows:-

			-			1911-15.	1015-16.	1916–17.
Pounds Yards		••	••	••		277,005,000 1,135,707,952	352,234,555 1,441,514,550	377,230,050 1,570,471,653
Dorens	••	•••	••			601,938	874,097	016,000

THE TRADE OF THE YEAR.

The prosperity of the cotton industry was one of the chief features of the year 1016-17 in which trade showed much that was satisfactory. The production of piece goods in Indian mills, and the export of these goods abroad reached record figures. Stocks were below normal, prices were exceptionally high, demand owing to a favourable monson was brisk, and competition was reduced almost to a negligible factor, especially in regard to the low grades of goods, which before the war were imported from Germany and Austria-Hungry. At the end of the year the position of the Industry was stronger than it had been for many years.

Cotton Yarn.—The increase in the exports of cotton twist and yarn by Rs. 571 lakins was accounted for by the rise in prices. The value of the exports was nearly Rs. 7,50 lakins and China was, as in previous years, the chief importer of Indian yarn. The exports to Egypt, Persja, the United Kingdom, Slam, and also to Native States in Arabia except Maskat, were much above the exports of the preceding year and the pre-war average. The exports were—

	•	•			Average of five years 1909-10 to 1913-14.	1015-1916.	1916-17.
China			••	••	£ 169,953,000	£ 130,964,000	£ 135,980,000
Egypt					2,183,000	5,628,000	7,212,000
Persia					2,030,000	2,570,000	5,108,000
Straits Settlem	rats				4,411,000	4,565,000	4,553,000
United Kingdo:	n		••		683,000	2,278,000	2,357,000
Arabia other the	in Mosk	nt		• •	144,000	104,000	1,101,000
Siam		• •			305,000	828,000	1,094,000
Other countries			••		13,135,000	4,286,000	2,010,000
	Total	all (cou	ntries) £		192,814,000	160,232,000	160,417,000
		Value	in Rs.		0,13,45,000	6,02,20,000	7,49,83,000

Cotton Goods.—The exports of cotton goods were valued at Rs. 5,26 lakhs of which pieco-goods were approximately Rs. 5,06 lakhs. There was an increase of Rs. 2,50 lakhs in the exports of cotton piece-goods, accounted for by an increase of Rs. 2,43 lakhs due to an increase in the volume of the exports and of Rs. 16 lakhs due to higher prices. The quantity exported was more than double that in the preceding year and nearly three times the average exports during the pre-war quinquennium. The exports were—

				Average of five years 1000-10 to 1018-14.	1915-16.	1016-17.
				Yards.	Yards.	. Yards.
Grey	 •• ,			47,414,000	53,994,000	146,158,000
White	 ••	'		422,000	403,000	1,570,000
Coloured	 		• •	42,384,000	59,068,000	• 97,017,000
		Total yards	••	90,220,000	118,465,000	244,745,000
	1	alue in Rs.		2,08,95,000	2,46,69,000	5,05,97,000

It is of interest to compare the increase in the descriptions of goods produced and experted.

Production in the Indian Mills.

GREY AND BLEACHED PIECE-GOODS.	Average of five years 1909-10 to 1913-14. Millions of yards.	1015-16. Millions of yards.	1916-17. Millions of yards.
Shirtings and longcloth Dhutis T. cloth, domestics and sheetings Chadars Driffs and feans Other sorts	260°5 130°8 64°1 26°4	419°G 323°G 151°4 75°2 46°3 78°8	426.5 500.9 192.1 67.8 56.5 91.1
Total . COLOURD PIECE-GOODS .	1 0-2-4 [1,091-0 . 346-6	1,154°9 441°6
Total piece-goods .	. 1,105.5	1,441.5	1,576.5
	Exports		
<u> </u>	1 2012 14(8)		
GREY AND BLEACHED PIECE-GOODS.	1913-14(*) (pre-war year.) Millions of yards.	1015-16. Millions of yards.	1916-17. Millions of yards.
Shirtings Cludars and dhutis	(pre-war year.) Millions of yards.	Millions	Millions
Shirtings Chadars and dhatis T. cloth and domestics Drills and jeans	(pre-war year.) Millions of yards.	Millions of yards. 6.0 5.0	Millions of yards.
Shirtings Cladars and dhutis 'T. cloth and domestics Drills and jeans Other sorts Total	(pre-war year.) Millions of yards. 2:2 7:6 21:6	Millions of yards. 6.0 5.0 25.3	Millions of yards. 14 10°4 86°4 1°6

Indian piece-goods compete with imported goods majuly in regard to grey goods.

Aden maintained her position as the chief market for Indian cloth as in the preceding year. She was a large purchaser in the year 1916-17 as were Persia, Asiatic Turkey, East Africa, the Straits Settlements, and Ceylon. The increase in the exports of Aden, Persia, East Africa, and Asiatic Turkey are very noticeable. The table below shows the exports of Indian piece-goods to the more important destinations:—

-					Average of five years 1909-10 to 1913 14.	1915-10.	1916-17.
Aden and Dependen Persia Turkey, Asiatic East African Protec bar and Pemba) Other East African Straits Settlements Ceylon Other countries	torate	(inclu	ding Za	nzi-	Yards, 10,254,000 7,314,000 12,464,000 5,389,000 16,335,000 18,956,000 9,599,000 14,909,000	Yards. 10,423,000 13,573,000 13,672,000 7,207,000 13,809,000 17,722,000 9,876,000 18,163,000	7ards. 58,591,000 46,405,000 29,600,000 10,053,000 20,349,000 10,638,000 34,288,000
Total	(all co	uptries Value) yards in Rs.		90,220,000 2,08,95,000	113,405,000 2,46,69,000	244,745,000 5,05,97,000

The share of Bombay in the export trade of 1916-17 rose to nearly 88 per cent. of the total as compared with 71 per cent, the pre-war quinquennial average, while that of Madras was over 11 per cent, as compared with 27 per cent, the pre-war average. Calcutta and Karachi each exported less than one per cent, of the total. Karachi's share was normal, while that of Calcutta below normal.

Progress of the Mill Industry.

The following statement thows the progress of the Mill Industry in the whole of India.

**********	_				Number	Number	Average No. of	Approxim of Cotto	ate Quantity n Consumed.
Year	ading:	ioth Ju	ne	Number of Mills,	of Spindles.	of Looms.	Hands Employed Daily.	Cwts.	Bales of 302 lbs.
1897				173	4,005,618	37,591	114,335	4,653,276	1,300,936
1404	••	• •	• •	185	4,259,720	39,013	148,964	5,181,618	1,481,828
1890 1900	••	::	••	189	4,729,333 4,915,783	39,069 40,121	162,103 161,189	5,863,165 6,086,732	1,675,190 1,453,352
1901 1902	• •	::	••	193 192	5,000,030 5,000,055	41,180 42,581	172,683 181,031	4,731,090 6,177,633	1,351,740 1,765,038
1903 1904	• •	::	••	192 191	5,013,297 5,118,121	41,092 45,337	181,399 184,779	0,037,690 0,100,681	1,739,310 1,741,766
1905 1906	••	••	••	107 217	5,163,496 5,270,595	60,139 62,005	195,277 208,616	6,577,354 7,082,306	1,870,244 2,023,51 6
1907	••	••	• •	221	5,333,275	59,436	205,696	6,930,595	1,080,170
1909		••	• •	241	5,756,020	67,020	221,195	6,070,250	1,001,500
1909	••			259	6,053,231	76,893	236,024	7,331,500	2,100,000
1910	••	••		263	6,195,671	82,725	233,624	0,772,535	1,935,010
1911	••	••		263	6,357,460	85,332	230,610	6,670,531	1,905,866
1912	••	••	••	268	0,463,929	88,951	213,637	7,175,337	2,050,102
1913	••	••	••	272	6,596,862	94,136	253,786	7,336,056	2,096,016
1914*	• •	••	••	271	6,778,893	104,179	260,276	7,500,961	2,143,126
1915*	••	••		272	G,848,744	103,000	205,346	7,350,212	2,102,632
1916*	••	••	••	209	6,839,877	110,268	271,361	7,692,013	2,107,718

^{*} Year ending 31st August.

Earnings of Labour.

In 1917 wages in the Bombay cotton industry were increased by ten per cent, to meet the higher cost of food. This was a local step and was not of general applicability. We give the average wages, it being understood that the Bombay rate is at least ten per cent, higher.

AVERAGE WAGES.

	Rate per 1914.		1915.	1916.	
.		Rs. a. p.	Rs. a. p.	Rs. a. p.	
:: -:	Month	12 11 5 12 0 0	12 13 0 12 6 8	12 13 7 12 6 8 _	
: :	77	9 8 0 16 0 0	9 8 0 16 0 0	9 8 0 16 0 0	
:: ::	90 89	22 12 8 31 0 0	23 6 10 23 8 0	23 6 10 36 0 0	
		Month	Rs. a. p. Month 12 11 5 12 0 0 , 9 8 0 16 0 0 , 9 8 0 16 0 0	Rs. a. p. Rs. a. p.	

The Textile Industry.

Statement of the amount in rupees of Excise duty realised from goods woven in the Mills in British India; under the Cotton Duties Act, II of 1890; also the amount of valent duty levied in the Native States; in each year from 1896-97 to 1916-17.

				Bombay.	Madras.	Bengai.	. United Provinces of Agm and Oudh (also Ajmer- Merwara).	Punjab and Delhi.	Central Provinces and Berar (a)
1896-97 1897-98 1898-99 1809-1900	**	••		9,14,480 9,60,600 11,20,390 10,95,236 10,28,542	56,300 66,470 69,130 88,678 41,827	1,180 900 2,523	44,350 61,000 54,818	13,270 14,400 12,730 50,448 5,800	79,269 84,969 83,109
1901-02 1902-03 1903-04 1901-05 1905-06	••	• •		15,26,103 15,84,121 17,64,527 20,43,832 22,78,425	54,139 67,813 62,350 45,379	5,863 0,603 10,903 11,929	69,284 74,023 80,180 96,710	4,370 3,031 1,104 2,007 b,144	1,10,140 1,80,620 1,56,371 1,61,368
1906-07 1907-03 1908-09 1909-10 1910-11	• •		••	24.36,205 28,82,208 29,51,859 33,88,658 36,78,552	1,35,131 1,42,205 1,45,333	31,556 53,351 55,822	1,66,044 1,88,345 1,92,552	7,464 8,746 9,509 6,611 7,300	1,75,944 1,98,419 2,17,217
1911-12 1912-13 1913-14 1914-15 1915-16 1916-17	•••	••	••	42,17,878 48,27,093 45,08,188 42,31,546 42,25,609 3,538,341	2,00,802 2,13,100 1,83,880 2,11,450	81,709 78,951 53,040 41,704	2,11,847 2,55,467 2,07,454 2,01,012	10,862 17,971 22,353 10,068 0,291 24,183	2,71,882 3,00,919 2,64,937 2,36,497

1916-17 .		••	• •		3,538,841 2,8	7,031 70,5	29 2,47,00	1 24,18	2,93,460	
					Total Britis	h India.	Native States.	Grand Total.		
					Gross duty.	Net duty.	Gross duty.	Gross duty.	Net duty.	
1806-07 1897-98 1898-99 1899-190	0	**	••	 	11,23,440 11,66,329 13,75,119 13,39,812	10,91,590 11,38,050 13,63,120 13,09,514	18,459 47,835 52,180 40,937	11,41,899 12,14,104 14,27,305 13,80,749		
1900-01 1901-02 1902-03 1903-04	••		••	••	12,16,367 17,69,908 18,66,213 20,77,449	11,62,947 17,16,836 18,25,469 20,36,104	48,449 61,171 65,541 59,061	12,64,756 18,31,079 19,31,764 21,86,510	17,77,965	
1904-05 1905-06 1906-07 1907-08	••	••	••	••	23,81,825 27,06,784 29,00,957 33,99,717	23,33,636 26,71,061 28,64,202 33,55,046	67,320 83,455 81,976 97,499	24,49,145 27,90,239 29,82,671 34,97,216	27,54,516 20,46,152	
1908-09 1909-10 1910-11 1911-12	•••	••	••	••	42,26,575	34,98,480 39,61,020 1,75,878 48,04,492	1,14,498 1,37,699 1,75,878 1,82,479	36,53,276 41,43,892 41,56,129 50,61,957		
1912-13 1913-14 1914-15 1915-16 1916-17			••		54,39,043 49,40,931 49,25,571	55,76,567 53,95,014 49,32,185 48,40,107 44,12,756	2,21,178 2,38,393 2,33,160 1,90,275 2,47,301	58,39,147 56,77,430 51,74,091 51,15,846 47,03,842	51,65,345 50,30,362	

The Jute Industry.

Considering its present dimensions, the jute industry of Bengal is of very recent origin. The first jute mill in Bengal was started at Bishra in 1855, and the first power-loom was Bishra in 1855. The original outturn was 8 tons per day. In 1900 it had grown to 2,500 tons per day, it is now 3,000 tons per day, and it shows every indication or growing and expanding year by year, a 15 per cent, interim dividend was declared, which seemed to justify the enormous per day and expanding year by year, also be company, and shares touched Another interesting thing about the jute industry of Bengal is that, although it is practically a monopoly of Scotsmen from Dundee, irred was declared, which seemed to justify the enormous from the Borneo Company, and shares touched another interesting thing about the jute industry of Bengal is that, although it is practically a monopoly of Scotsmen from Dundee, irred was declared, which seemed to justify the enormous from the Borneo Company, and shares touched in 1859, was 25 per cent, premium. The dividend for the control of their first half year, a 15 per cent, interim dividend was declared, which seemed to justify the enormous from the Borneo Company, and shares touched from the Borneo Company, and shares touched from the Borneo Company and shares to their first half year, a 15 per cent, interim dividend was declared, which seemed to justify the enormous from the Borneo Company and shares to their first half year, a 15 per cent, interim dividend was declared, which seemed to justify the enormous from the Borneo Company and shares to their first half year, a 15 per cent, interim dividend was declared, which seemed to justify the enormous from the borneo Company and shares to their first half year, a 15 per cent, interim dividend was declared, which seemed to justify the enormous from the borneo Company. cally a monopoly of Scotsmen from Dundee, the industry itself owes its inception to an Englishman. The founder of the industry was George Acland, an Englishman, who began life as a midshipman in the navy, and was for some years in the East India Marine Service. He quitted this service while still a young man, and engaged in commercial pursuits in Coylon, where he was successful. Later in Coylon, where he was successful. Later on he turned his attention to Bengal, and arriving in Calcutta about 1853 he got into touch with the management of the paper works, then at Scrampore, where experiments were being tried with country grasses and fibre plants to improve the quality or cheapen the manufacture of paper. This seems to have suggested to Acland the manufacture of rhea, and in 1854 he proceeded to England, with a view to obtaining machinery and capital in view to obtaining machinery and capital in order to obtaining machinery and capital in order to manufacture goods from that material. During this trip he visited Dundee, and while there Mr. John Kerr, of Douglas Foundry, suggested to him the importing of machinery into Bengal "where the jute comes from and spin it there." This suggestion bore fruit; for shortly afterwards Aciand placed orders with Kerr for a few systems of preparing and manufactured to India. spinning machinery, and returned to India the same year accompanied by his two sons and a few Dundee mechanics who were to assist him in erecting and operating the first jute mill in Bengal. This, as has been stated, was at Rishra, the site of the present Wellington mills, near Semmpore, and here, in 1856, the first machine spun jute yams were made. As not infrequently happens the pioneer got very little out of his venture. After several ups and downs the Acland interest in the Rishra mill ceased in 1867, and the company which Acland had formed in 1854 was wound up in 1868. spinning machinery, and returned to India

Power-looms.—The ploneer's example was followed by Mr. George Henderson of that lik and firm, and in 1859 the Borneo Jute Co. was launched under his auspices. To this company is due the credit of introducing the power-loom for jute cloth. Unhampered by the financial difficulties which had burdened the Aclands, the Borneo Jute Co. made rapid progress, doubling their works in 1864, and clearing their capital twice over. In 1872 the mills were turned into a limited liability company, the present "Barnagore Jute Manufacturing Co., Ld." Four other mills followed in succession—Gouripore, Serajgunge, and succession-Gouripore, Beraigunge, India Jute Mills.

first year, ending August 1873, was 25 per cent., for 1874, 20 per cent., and for 1875 10 per cent. Then came a chango. The investing public had forgotten the effect of the Port Canning bubble, and the condition of the jute industry in 1872-73 seeming to offer a better return than coal or tea, both of which had just enjoyed a boom, it was only necessary to issue a prospectus of a juto mill to have all the shares snapped up in the course of an after-

In 1872-73 three new companies were floated locally—the Fort Gloster, Budge Budge and Sibpore, and two Home companies, the Champ-dany and Samnugger, all of which commenced operations in 1874. In 1874-5 eight other mills were launched—the Howrah, Oriental (now Union), Asiatic (now Soorah), Cilve, Bengal Pressing and Manufacturing Co. (now the Belliaghatta-Barnagore branch mill), Rustomjee (now the Central), Ganges (registered in England), and Hastings, owned by Messrs. Birkmyre Bros., of Greenock famein all thirteen new companies, coming on all of a heap and swelling the total looms from 1,250 up to 3,500. This was too much of a strain for the new industry, and for the next tem years all the mills had a sovere struggle. The older ones all survived the ordeal, but four of the new concerns—the Oriental, the Asiatic, the Bengal Pressing and Manufac-turing Co. and the Rustomjee—became mori-bund, to appear again later on under new names and management. Fort Gloster also suffered badly.

Between 1875 and 1882 only one new mill was put up. This was Kamarhatty, promoted by Messrs. Jardine, Skinner & Co., which came into being in 1877, as the result of Dr. Barry's visit to Calcutta in 1876, when he transferred the agency of the Gouripore Co. from Messrs, Jardine, Skinner & Co. to his own firm. This mill, together with additions made by some of the other mills, brought the total looms up to 5,150 in 1882. By the end of 1885 the total was further augmented by the Hooghly, Titaglur, Victoria and Kankanrab mills, bringing the number of looms at work up to 6,700. From this period on to 1804 no new mills came into existence except the Calcutta Twist Mill, with 2,460 spindles, since merged into the Wellington branch of the Champdany Co. Between 1890 and 1900 the following new mills were started:—the Gordon Twit Mills with 1,800 spindles (now acquired by Anglo-India), Khardah, Gondolpara (French owned), Alliance, Arathoon, Anglo-India, Standard, National, Delta (which absorbed the Serajgungo), and the Kinnison. A full of four years witnessed large of tensions to the prints with "From 1868 to 1873," writes Mr. David Wallace in "The Romance of Jute," "the witnessed large extensions to the existing mills, five mills excepting the Rishta mill simply after which came the following series of new

brook.

mills, besides further heavy extensions—Dalinges from the earliest year for which complet usie, Alexandra, Naihati, Lawrence, Reliance, Belvedere Auckland, Kelvin and Northbrook.

Progress of the Industry.

The record of the intering industry may well be to a very much larger extent the number of the companies of the intering industry. The record of the jute industry may well be to a very much larger extent than either the said to be one of uninterrupted progress. The number of mills at work or the amount of following statement shews quinquennial aver-

		Nu	mber of	Nominal	Zumbe	Number (in thousands) of				
•			ills at work.	Capital (in lakhs of Re.)	Persons employed.	Looms.	Spindles.			
1879-80 to 1883-84		21	(100)	270·7 (100)	38·8 (100)	3·3 (100)	88 (100			
1884-85 to 1888-89		24	(114)	341·6 (126)	52·7 (186)	7 (127)	138·4 (157			
1889-90 to 1893-94	**	26	(124)	402·6 (149)	64+3 (166)	8·3 (15)	172°C (196)			
1894-95 to 1898-99		31	(148)	522·1 (193)	86+7 (223)	11·7 (213)	244°8 (275			
1899-1900 to 1903-09)4	36	(171)	680 (251)	114 · 2 (294)	10·2 (205)	034 • 6 (090)			
1904-05 to 1908-09		46	(210)	960 (355)	165 (425)	24·8 (451)	510 • 5 (590)			
1909-10		60	(286)	1,151 (425)	204·1 (526)	31·4 (571)	645-9 (734)			
1910-11		58	(276)	1,150 (423)	216·4 (558)	53·1 (602)	682-5 (776)			
1911-12		59	(281)	1,193 (441)	201 · 3 (519)	32·0 (59S)	677·5 (770)			
. 1912-13		61	(290)	1,196-5 (442)	201 523)	34 (61S)	705·7 (803)			
1913-14	• •	64	(303)	1,309°21 (486)	210 ⁻³ (557)	3G (G54)	744°3 (846)			
1914-15		70	(383)	1,394°3(515)	238 ⁻³ (614)	C8:4 (G93)	795°5 (904)			
1915-16	••	70	(383)	1,386 (494)	234.1 (055)	30.9 (725)	812-4 (923)			

The production of the mills has increased to a still greater extent. The following figures show the export of jute manufactures and the declared values for the quinquennial periods. The combined value of sunny bass and gunny-cl th export d by sea i 1918-14 is over twenty-two times as great as the average value of the exports in the period 1870-80 to 1888-84.

						Jute mai	nufactures	•		
		_			Gunny millio num	b igs in one of iber.	mil	cloths in lion- of ards.	Valu lakhs o	
1879-80 to 1884-85 to	1883-84 1888-89	::	••	::	54·9 77	(100) (140)	4·4 15·4	(100) (350)	124·9 162·9	(100) (130)
1889-90 to 1894-93 to	1893-94 1893-99	::	••		111·5 171·2	(203) (312)	41 182	(992) (4,136)	289·3 518	(23 ²) (415)
1899-1900 to	to 1903-0 1908-09	£	••	::	208·5 257·8	(376) (469)	427·2 693	(9,709) (15,864)	826·5 1,442·7	(652) (1,154)
1909-10 1910-11	::	••	••	:-	364·4 360·9	(684) (657)	940·1 955·3	(21,366) (21,711)	1,709°6 1,699°4	(1,369) (1,361)
1911-12 1012-13	::	··	••		289·9 311·7	(523) (563)	\$71.5 1,021.8	(19,807) (23,223)	1,600·8 2,257·1	(1,232) (1,531)
1913-14 1914-15	::	::	••	::	365-8 397-0	(672) (724)	1,061.2	(24,118) (24,030)	2,827-8 2,582	(2,234) (2,067)
1915-16	••	••	••	•-	794·1	(1447)	1,192.3	(27,098)	0,797.9	(3,041)

· · · · · · · · · · · · · · · · · · ·	
Up to the last quinquennium the exports of raw jute were marked by increases from year to year though the improvement was not so rapid as in the case of manufactures. A slight	ordinary, per bale of 400 lbs.
decrease in the exports occurred in 1909-10 as compared with the figures for the preceding quinquennial period and a further decline in 1910-11, but a marked recovery was made in 1911-12 which was accentuated in 1912-13:— Jute, raw, in	1870-80 to 1883-84
millions of cwt. 1870-80 to 1833-84 7 ° 5 (100) 1834-85 to 1888-89 8 ° 9 (119) 1880-90 to 1893-94 10 (133) 1804-95 to 1898-99 12 ° 3 (104) 1890-1900 to 1903-04 12 ° 7 (109) 1904-05 to 1908-09 15 ° 09 (201)	1910-11
1909-10 14.6 (195) 1910-11 12.7 (169)	The average prices of gunny cloth have been as follows:—
1911-12	
1014-15 10·1 (135, 1015-16 12 (160)	1879-80 to 1883-84 10 7 11 (100)
The price of raw inte reached a very high point in 1900-07, the rate being Rs. 05 per bale; in 1907-08 it dropped to Rs. 42 per bale, and the fall was acceptanted in 1908-09 and 1909-10, the price having declined to 36.4 and Rs. 31 per bale respectively. In 1910-11 the price rose again to Rs. 41-8.0, to Rs. 51-4-0 in 1911-12 and further to Rs. 70-12-0 in 1913-14. The following are the quinquennial average prices per bale (400 pounds) of ordinary intercalculated from the prices current published by the Bengal Chamber of Commerce:	1884-85 to 1888-89
	The second secon

The 1917 crop.—The final figures of outturn for the three provinces work out as follows :-

PEOVINCE	Bales.		
	1017.	1910.	Difference.
Bengal (including Cooch Behar)	7,048,050	7,497 875	+451,081
Bihar and Orissa (including Nepal)	734,262	626,238	+108,024
Assam	221,146	* 255,740	-34,504
Total	8,004,364	8,379,853	+524,511
	• Revised.		
	AREA IN AORES.		
Province.	1917.	1916.	Difference.
Bengal (including Cooch Behar)	2,412,427	2,383,562	-] -28,805
Bihar and Orlssa	223,272	221,037	765
Assum	94,000	95,100	1,000
Total	2,729,690	2,702,699	+27,000

[·] Rovised.

The Jute Mills Association now one of ! the most important, if not the most important, of the bodies affiliated to the Bengal Chamber of Commerce, was started under the following circumstances:—In 1886 the existing mills, finding that, in spite of the constant opening up of new markets, working results were not favourable, came to an agreement, with the late S. E. J. Clarke, Secretary to the Chamber of Commerce, as trustee, to work short time. The only mills which stood out of this arrangement were the Hooghly and Serajgunge. The first agreement, for six months dating from 15th February 1896, was subsequently renewed at intervals a break for five years up to February 15, 1891. The state of the market at the time of the renewals dictated the extent of the short time, which varied throughout the five years between 4 days a week, 9 days a fortnight and 5 days a week. Besides short time, 10 per cent. of the sacking looms were shut down for a short period in 1690. An important feature of this agreement was a mutual undertaking by the parties not to increase their spinning power during the currency of the agreement, only a few exceptions being made in the case of a few incomplete new mills.

The officials of the Association are:-Chairman: Mr. A. R. Murray.

Members of Committee: The Hon. Sir Archy Birkmyre, Mr. D. K. Hall, Mr. H. M. Peat, and Mr. G. F. Rose.

resistants to have the engines stopped at 2 bags for transporting grain. Exports to Austor 3 p.m. on Saturdays. The local Governtralia in 1016-17 were a record. The United ment took the matter up, but their action kingdom with Australia took more than half went no further than applying moral sussion, of the number of bags exported while the backed by a somewint half-hearted threat. United States took more than half of the The Mill Association held meetings to consider the question and the members were practi-There were 74 mills at work throughout and cally agreed as to the utility of early closing year with 39,607 looms and 824,315 spindles themselves to carry it out without legislation. The number of persons employed was 262,552 themselves to carry it out without legislation. There were no difficulties as regards the surprive fused to sanction the passing of a Resolution by it is improbable that these, with one exception, the provincial Government under the Factory can begin manufacturing to any extent until Act and the matter was dropped. Only a year after the war. or two ago the Jute Mills Association in despair brought out an American business expert, Mr. J. H. Parks, to advise them on the possibillty of forming a jute trust with a view to exercising some control over the production and price of jute. Mr. Parks came, and wrote a report which the Association promptly pigeon-holed because the slump was over and the demand was so prodigious that there was no need to worry about the price of jute.

An Association, styled the European Jute Dealers Association, has lately been formed in Calcutta to promote and to guard the common interests of its members as dealers in jute for local consumption. The members are

milisin and around Calcutta. Committee:-Mr. R. L. B. Gall, Chairman, Members :- Messis. G. S. Alexander, P. E. Suttie, G. Morgan, C. D. Stewart, and A. Tosh.

Effects of the War .- The official review of the Trade of India in 1016-17 says :- The value of the exports of raw jute increased in 1916-17 by nearly its. 65 takins to Rs. 1,629 takins. The quantity exported, however, was less than in the preceding year. The estimated less than in the preceding year. The estimated yield of the crop was 12 per cent. above that of the previous year, ci.z., 1,490,000 tons or 8,340,000 bales. Owing to the lack of tonuage and other abnormal circumstances brought about by the war, the quantity exported was 10 per cent, below that of the previous year. Of the consumers the United Kingdom and Italy took less, while the United States, France (mainly via Dunkirk), Russin (ria Vladivostok) and Brazil took greater quantities. There were, of course, no exports to enemy countries which, took more than 27 per cent, in the five years ending 1913-14, the pre-war year. The increase in the value accompanied by a decrease in the volume of exports was due to the very high range of prices during the months of September, October, November and December. Towards the close of the year under review prices steadily declined, and have since gone ētШ lower.

Jute Manufactures.—The value of the exports now approximates to Rs. 42 crores. In spite of the war with its attendant difficulties working days.—With the introduction of cloth showed an increase of Rs. 241 lakbs of the cletric light into the mills in 1896, the which Rs. 163 lakbs were due to higher working day was increased to 15 hours, Sature prices and Rs. 78 lakbs to an increase in the days included, which involved an additional volume of exports. There were also an increase amount of cleaning and repairing work on of Rs. 118 lakbs in the value of gunny bags Sundays. In order to minimise this Sunday exported. The number of bags shipped invork and give them a free Sunday, an agita-creased while the weight decreased, sand bags tion was got up in 1897 by the Mill European for war purposes being lighter than the ordinary assistants to have the engines stopped at 2 bags for transporting grain. Exports to Australia. quantity of cloth exported.

There were 74 mills at work throughout the can begin manufacturing to any extent until

Hemp and Jute Substitutes.

Experiments have been made during the last few years by the Agricultural Department of the Government of India with the Deccan hemp plant (Hibiscus cannabinus), which yields a fibre or the plant, known as Type 3, has been obtained, which it is now proposed to introduce into several parts of India, and, as a beginning, the variety is to be grown on a number of estates in Billar America (the discovered tates in Bihar. A sample of the fibre prepared from this variety by the usual methods of retting was 10 ft. to 12 ft. long, of an exceptionally for local consumption. The members are light colour, well cleaned, and of good strength-balers and brokers of jute for sale to the jute It was valued at £18 per ton with Bimlipatam

£17 per ton. Decean hemp has been grown fairly extensively in Bombay, the Central Provinces, and Madras, where it is used for ropes and cordage and also for the manufacture of a coarse sackcloth. A valuable feature of the plant is its suitability for cultivation in such parts of India as are not suitable for jute.

Prior to the war, the United Kingdom's requirements of hemp were mainly supplied by the following countries in order of importance: the Philippine Islands, New Zealand, Indla, Russia, Italy and Germany. The opinion ap-pears to be held that the effect of the war will be to cause very considerable changes in the character of the fibre market. There will probably be labour difficultles, it is thought, in the preparation of the hemp crops of Russia and Hungary, and it is not unlikely that the world will look to countries such as India for the supply of fibres which may be used as substitutes for the European varieties of hemp. There can be no doubt that one of the early effects of the war was to firm up hemp prices. At far as Indian hemp is concerned, values were persistently depreciated during the first six months of 1914 owing to large stocks held; but the closure of the Russian hemp market on the outbreak of war resulted in a marked improvement in values, and there was a keen demand and a considerable rise in price.

Government Scheme of Buying.

Towards the end of August 1916, it became known that an arrangement had been made by the Home Government under which Blessrs. Ralli Brothers had been entrusted with the purchase of raw jute for Dundee mills making war bags. That is to say all the war bags and jute textiles being manufactured for Government by the Jute milis in Dundee were to be made from jute which would be supplied by Messrs. Rall! Brothers' Calcutta office. By this arrangement practically half the entire Calcutta to Dundee jute trade was taken out of the hands of a group of old established all-British firms and handed | business.

jute at £12 10s., and Bengal first mark jute at over to Messrs. Ralli Bros. What this really £17 per ton. Decean tump has been grown meant was that Messrs. Ralli Bros., who in 1916 only shipped 131,000 bales to Dundee as against approximately 10½ lakhs of bales by British firms (these figures are based on the generally accepted estimate that Dundee takes 12 lakhs of bales a year) would in 1916 be given Dundee business to the extent of at least 5,00,000 bales.

> The scheme was severely criticised in Calcutta and in the Press, both in India and England, and the Anchor-Brocklebank Line refused to carry jute for Government unless the Govern-ment Buying Agency was in the hands of a purely British firm. But it was not until the end of October, after strong representations by the Government of India and the Secretary of State, that the contract was cancelled.

The new jute Scheme—It was then made known that the War Contracts Department, which had made the contract in the first place without consulting the Government of India, had accepted under certain conditions a schemo submitted by the Government of India on behalf of certain responsible British firms. This scheme provides for supplying the full amount of jute required for military purposes on similar terms to those previously arranged with Ralli Brothers. A Jute Commissioner was to be ap-pointed in India to supervise the purchases of the various firms, and, by inspection of their accounts and supervision of their non-Government purchases, to secure that they are not unduly favouring private business. They are to charge for their own balings only actual not cost, plus establishment charges directly concorned with work of the press house. They are further to undertake to buy marks other than their own balling at prices not higher than jute of their own balling. The War Office will cable direct to the Jute Commissioner from time to time the quantity and grades to be purchased through the agent firms, to whom allotments will be made by the Commissioner so far as possible on the basis of their previous Dundee

Hydro-Electric Development.

India promises to be one of the leading countries of the world in regard to the development of hydro-electric power and great strides in this direction have already been made. India rot only specially lends it elf to projects of the kind, but peremptorlly demands them. Cheap motive power is one of the secrets of successful industrial development and the favourable initial conditions caused by the war, the enthusiasm for industrial development which has seized nearly all classes of educated Indians, and the special attention which the circumstances of the war have compelled Government to direct towards the scientific utill-ation of Indian natural resources all point to a rapid growth of industrial enterprise in all parts of India within the next few years. Indeed, the process, for which sound foundations had been faid before the war, is now rapidly under way. India is severely handleapped compared with other lands as regards the generation of power commodities are all difficult to obtain, and costly in India except in a few favoured areas. Coal supplies, for example, are chiefly centred in Bengal and Chota Nagpur and the cost of transport is heavy. Water power and it-transmi sion by electricity offer, on the other hand, immense possibilities, both as regard-the quantity available and the cheapness at which the power can be rendered, in all parts of India.

Water power schemes, pure and simple, are generally difficult in India, because the power needs to be continuous, while the rainfall i, only during a small portion of the year. Perennial rivers with sufficient water throughout the year are practically non-existent in India. Water, therefore, must be stored for use during the dry season. Favourable sites for this exist in many parts in the mountainous and hilly regions where the heaviest minfalls occur and the progress already made in utilising such opportunities by the electrical transmi sion of power affords high encouragement for the Further, hydro-electric schemes can frequently be associated with important irrigation projects, the water being first used to drive the turbines at the generating stations and then distributed over the fields. Water, as was pointed out in an interesting paper on the subject presented last autumn to the Indian Industrial Commission by Mr. R. B. Joyi er, C.I.E., M. Inst. C.E., lately in the Irrigation Branch of the Bombay Public Works Department and now engaged in the Tata's Hydro-Electric Works in Western India, "can be stored in thi country at a third or a quarter of the cost which there would be in other countries. This is not merely on account of the cheaper labour, which would be the chief reason in an earthen dam, but in masonry or concrete dams. It is also because we do not use cement, which, for some reason not well-known to me, is generally deemed essential elsewhere, though it cannot really be Bombay Hydro-Electric Works.

The greatest water-power undertakings ir India-and in some respects the greatest in the world-are the Tata hydro-electric scheme: recently brought to fruition, and constantly undergoing expansion, for the supply of power in the city of Bombay. Bombay i-after London the most populous city in the British Empire and it is the largest manufacturing town in Asla Its cotton mills and other factories use over 100,000 horse power of mechanical energy and until a year or two ago this was almost entirely provided by steam, generated by coal coming from a distance-mostly Bingal. The Tata Hydro-Electric Power Scheme, now an accomplished fact, marked one of the big steps forward made by India in the history of its Industrial development. It was the product of the fertile brain of Mr. David Go-tiling, one of the well known characters of Bombay, a little over a decade ago. The exceptional position of the Western Gluts, which ri-e 2,000 feet from sea-level within a very short distance of the Arabian Sea, and force the monsoon as its weeps to land, to break into torrential rain at the mountain passes was taken full advantage of, and the table lands behind the Ghats form a magnificent eatchment area to conserve this heavy rainfall in. Mr. Gostling pressed_the scheme on the attention of Mr. Jamset ji Tata for years, and with per-overance collected data which he laid before that pioneer of the larger industries in India. He summored the aid of exp rts from England to investigate the plan. The scheme was fully considered for six long years. Me anwhile both Mr. J. N. Tata and Mr. David Gostling passed away, but the sons of the former continued the work of their father and on Mr. Gostling's death, Mr. B. B. Joyner's aid was sought to work out the Hydraulic side of the undertaking.

The scheme completed, a syndicate secured the ling from Govern ment and an endeavour was in to enlight the support of financiers of England who tried to impose terms which were not acceptable. Meanwhile, the attention of Sic George Clarke (row Lord Sydenham), then Governor of Bombay, and an engineer of distinction himself, was drawn to the scheme. The Interest shown by him drew the attention of Indian Chiefs in the Presidency of Bombay and outside it to its possibilities, funds flowed in and a company with an initial capital of 1,75,00,000 Rupees was started.

The hydro-electric engineering works in connection with the project are situated at and about 'Lonavia above the Bhor Ghat. The rainfall is stored in three lakes at Lonavia, Walwhan, Shirawta whence it is conveyed in masonry canala to the forebay or receiving reservoir. The power-house is at Khopoli, at the foot of the Ghats, whither the stored water is conveyed through pipes, the fall being one of 1,725 feet. In falling from this height the water develops a pressure of 750 lbs. per square inch and with this force drives the



Works in Knshmir.—A scheme of much | plant being installed within it. Two trans-importance from its size; but more interest | missionlines runside by side as far as Baramulla, importance from its size, but more interesting because of the developments that may
be expected from it than for the part which its
current supply already plays in the life of the
countryside, is one installed a few years ago
by the Kashmir Durbar, utilising the River
Jhelum, near Baramulla, which lies thirtyfour miles north-west of Stangar. The headworks of the Jhelum power installation are
situated six and a half miles from the power
louse and the main connection between the
two is a great timber flume. These works and
the forebay at the delivery end of the flume have
a capacity for carrying water sufficient for the
generation of 20,000 electrical horse power.
Four pipes 600 feet long lead from the forebay
to the power house, and from forebay to waterto the power house, and from forebay to water-wheel there is an effective head of 305 feet. There are four vertical waterwheels, each coupled on the same shaft to a 1,000 k.w., 3-phase, 2,300 volt, 25-period generator running at 500 r.p.m., and each unit is capable of taking a 25 per cent, overload, which the generator end is guaranteed to maintain with safety for two hours. The power house is of sufficient capacity to allow of 15,000 k.w. generating

mission lines runside by side as Jaras Bandunia, 21 miles distant, at which point one terminates. The other continues to Srinagar, a further 31 miles. The installation at Baramulla was originally utilised for three floating dredgers and two floating derricks, for dredging the river and draining the swampy countryside and rendering it available for cultivation, but these constitutions have been stated. operations have temporarily been curtailed, so that only one dredger is now in operation. The lighting of Baramulla has lately been taken in hand with entisfactory results and it is expected that the lighting demand will rapidly increase and that a small demand for power will soon spring up. At Srinagar, the line terminates at the State silk factory, where current is supplied not only for driving machinery and for lighting, but for heating. The greater part of Srinagar city is now electrically lighted and during the past year a motor load of over 100 k.w. has been connected with the mains, motors being hired out to consumers by the Electrical Department. This step was taken with a view to educating the people in the use of electric power and it has been entirely successful.

FACTORIES INSPECTED UNDER THE FACTORY ACT IN 1915.

Province.	Number of Factories working and liable	Factories Average working Number of and liable Hands		Number of Accidents Reported.			
-	to be inspected.	employed daily.	for breach of Act.	Fatal.	Serious.	Minor.	Total.
Bengal	383	3,78,235	8	42	445	803	1,293
Bihar and Orlssa	49	31,193		11	99	409	519
United Provinces	221	64,270	6	4	91	453	553
Punjab	187	29,720	7	G	21	167	194
North-West Frontier Province.	4	510	[,		****		
Burma	480	66,352	14	22	121	316	459
Central Provinces and Berat.	450	48.946	31	2	58	157	217
Madras	417	84,419	16	5	16	319	340
Bombay	786	2,80,568	20	21	67	1,682	1,770
Assam	. 15	2,821			1	1	2
Ajmer-Merwara	19	14,303		2	1	95	98
Deibi	. 16	2,866				ร	. 7
TOTAL IN 1914	3,027	1,004,106	97	115	923	4,414	5,452

to place on record some of the more important experiments which were commenced at Pusa n the year 1910 and have since been carried on in the endeavour to fix a superior multivoltine ace of the Mulberry Silkworm which would not legenerate and which would yield silk b tter noth in quality and outturn than that supplied by the multivoltine races which are reared at present.

Central Nurserles.—The report of the Agricultural Department, Bengal, for the year ending June 30, 1913, gives an account of a scheme which has been devised with the object of recialming the slik industry. The aim of the scheme is gradually to establish throughout the silk districts a sufficient number of central nurseries with rearing houses and thus enable the whole of the seed cocoons required in the province to be supplied under Government supervision. It is believed that this is the only really effective method of dealing with the problem. A number of the existing smaller nurseries were closed during 1913 and others are being converted into entarged and improved central nurscries with rearing houses complete. The ultimate success of the scheme depends largely on the willingness of the rearers to pay

cing districts. It has been found that, by the Silk Specialist.

:-t) explains that the object of the Bulletin provision of two small pulleys to the ordinary : Bengal type of reeling machine, superlor thread can be obtained, the cost of the extra apparatus is merely nominal (five or six annas per machine). whilet the suitability of the machine for cottage work is is maintained. By attention to such simple points as the stifling and storage of cocoo s and the temperature and quality of the water used in the reeling pans, great improvements can be effected in most silk centres in Bengal and other districts.

Exports of Silk.—As a result of the war of revival from its decadent condition, both as regards its volume and value. The value of exports during 1915-16 improved by Rs. 12 lakes to Rs. 278 lakes, of which raw sells accounted for Rs. 24 lakes, in 1916-17 the total

exports rose to Re. 54% lakhs.
The export of silk manufactures in 1916-1.

was valued at Rs. 5,43,000.

Imperial Slik Specialist.—At the end of 1915 it was decided that the first step to be taken to revive the silk industry should be the employment of a qualified expert who, after a careful study of the conditions not only in India but in other silk-producing countries, will formulate recommendations for the conan adequate price for pure seed.

A pamphlet was published in 1016, by Mr. M. of the Secretary of State, Mr. H. Maxwell N. D., Sericultural Assistant at Pusa, which lefroy, formerly Imperial Entomologist and contains practical hints on improved methods now Professor at the Imperial College of Science which are recommended to be used for reeling and Technology, South Kensington, was apmulberry silk in Bengal and other silk produs pointed to the temporary post of Imperial cling districts. It has been found that be the Suk Section 11.

Indigo.

Indigo dyes are obtained from the Indigofera, 1 of the many surprises of the a genus of Leguminosae which comprises some 300 species, distributed throughout the tropical and warm temperate regions of the globe, India having about 40. Western India may be described as the headquarters of the species, so far as India is concerned, 25 being peculiar to that Presidency. On the eastern side of India, in Bihar, Bengal, Assam and Burma, there is a marked decrease in the number of species but a visible increase in the prevalence of those that are met with.

There is evidence that when Europeans first began to export the dye from India, it was Company and so to the overthrow of the Portuguese supremacy in the East. Opposi-tion to indigo in 17th century Europe was keen owing to its interference with the wood industry, but it was competition to obtain indigo from other sources than India that led to the first decline of the Indian indigo industry. In the middle of the eighteenth century, when the cultivation of indigo in the West Indies had been given up—partly on account of the high duties imposed upon it and partly because sugar

industry, the province of Bengal was selected for this revival. It had no sooner been organised, however, than troubles next arose in Bengal itself through misunderstandings between the planters, their cultivators and the Government, which may be said to have culminated in Lord Macaulay's famous Memorandum of 1637. This led to another migration of the industry from Lower and Eastern Bengal to Tirhut and the United Provinces. Here the troubles of the industry did not end, for the researches of the chemical laboratories of Germany threatened the very existence of any natural vegetable dye. They procured from the Western Presidency and first killed the maddar dye of Europe, then the shipped from Surat. It was carried by the saillower, the lac and the al dyes of India, and Portuguese to Lirbon and sold by them to the are now advancing rapidly with synthetic dyers of Holland, and it was the desire to indigo, intent on the complete annihilation obtain a more ample supply of dye stuff that led of the natural dye. Opinions differ on many to the formation of the Dutch East India aspects of the present vicissitude; meantime aspects of the present vicissitude; meantime the exports from India have seriously declined. and salvation admittedly lies in the path of cheaper production both in cultivation and manufacture. These issues are being vigor-ously facel and some progress has been accomplished, but the future of the industry can scarcely help being described as if great uncertainty. The issue is not the advantage of new regulations of land tenure, but one exclusively of natural rersus synthetic indigo. (Watt's "Commercial Products of India.") and coffee were found to be more profitable— February 1915 a conference was held at Deini the industry was revived in India, and, as one when the possibility of assisting the natural February 1915 a conference was held at Delhi

indigo industry was considered from three points of view—agricultural, recearch and commercial. The agricultural or botal leal side of the question is fully discussed by Mr. and Mr. Howard of Pusa in Bulletins Nos. 51 and 54 of the Agricultural Research Institute. Perimps the most important problem for the natural indigo trade to solve is the marketing of the dye in the form most suited to the dyers. Bihal Indigo, according to a British Dyer whose view are entitled to respect, dyes a fuller shade that either synthetic indigotin or indigos a fined from plant-indigos. It is further stated that 60 per cent. of Bihar indigo dyes a fuller shade than 70 per cent. Dutch-Java.

Decline of the Industry.—Since synthetic indigo was put upon the market, in 1807, the natural indigo industry of India has declined very rapidly; apart from slight recoveries in 1900-07 and 1911-12, the declino continued without a break until the revival due to the impossibility of obtaining artificial dyes it sufficient quantities during the war. The figures for the last few years may be contrasted with those for the five years ending in 1807, it which the area under Indigo averaged 2,400 square mijes and the value of the exports over

£3,000,000 a year

20,000,000	10 31 112		
	Area under Indigo.	Quantity Exported.	Value of Exports.
	Acres.	Owts.	3
1901-02	791,000	80,750	1,234,837
1902-03	640,000	65,377	803,738
1903-04	707,000	60,410	717,468
1004-05	477,000	40,252	556,405
1905-06	384,000	31,186	390,018
1906-07	421,000	35,102	406,085
1907-08	394,000	32,490	424,849
1908-09	284,000	24,940	326,986
1909-10	289,000	18,001	234.544
1910-11	276,000	16,939	223,520
1011-12	271,000	19,155	250,635
1912-13	220,000	11,857	147,000
1913-14	176,000	10,030	142,000
1914-15	148,400	17,142	500,040
1915-16	314,300	41,942	1,385,428
1916-17	750,400	33,500	1,383,000

Present Position—The crop is most important in Bihar and Madras; in the Punjab and United Provinces it now occupies little over 100 square miles altogether. In Bengal the crop is largely raised by British planters, in the other provinces chiefly by native cultivators. Scientific research work on questions connected with cultivation and manufacture has been carried out by the Bihar Planter's Association, with the aid of a grant from Government since 1897.

In 1010-17 the production of indigo was estimated at 95,000 cwts. as against 55,000 in the preceding year, but the exports decreased owing to a larger local demand consequent on the scarcity of synthetic dyes. The exports were 33,500 cwts, compared with 41,900 cwts. in the preceding year and 15,400 cwts, the pre-war quinquennial average. The Average declared value increased from Rs. 490 per cwt. in 1015-10 to Rs. 618 per cwt. in 1016-17.

Crop Forecast.—The Director of Statistics in its first memorandum on the crop for the season 1917-18 states that the total area sown is estimated at 617,100 acres, which is practically the same as the revised estimate at the corresponding date of last year. As compared with the final estimate of last year (756,400 acres) the present estimate shows a decrease of 18 per cent. The total yield of dye is now roughly estimated at 70,000 cwts, as against 75,000 cwts. estimated in October 1916, or a decrease of 6.5 per cent. As compared with the final estimate of last year (95,000 cwts.) the present estimate shows decrease of 26 per cent. Weather conditions at showing time were favourable, and an extended area was sown with the crop, except in the Madras Decean, where fallure of rains, combined with a fail in prices, curtailed the area to such an extent as to counterbalance the increase in all other provinces. The crop has been adversely affected by excessive rain and floods in Blinar, the Punjab, and the western districts of the United Provinces. Elsewhere the condition of the crop

Details for the provinces are given below :-

First Forecast.

•									
Province.			Area.		Yield.		Yield per acre.		
			1917–18.	1016-17.	1917-18.	1016–17.	1917-18.	1916–17.	
				acres.	acres.	cwts.	cwts.	lbs.	lbs.
Madras Bihar and Orlssa	••	••	••	265,700 85,900	335,300 70,500		40,000 10,800	14 13	10 16
Punjab United Provinces Bombay and Slad Bengal	•	••	•••	179,000 9,∹00	150,300 7,700	15,000	16,000	9 23	17 12 17 10
		Total		617,100	(a)		75,200	13	14

Tea cultivation in India is chiefly in The exports by land were as follows:-Assam, Bengal and Southern India, the cultiva- Afghanistan tion elsewhere being comparatively unimpor-tant. The latest available official general statisties are those for the year 1016. (The statistics of production deal, for seasonal reasons, with the calendar year 1016 and those of trade with the official fiscal year 1916-17.) They show a total area of 650,800 acres under tea, 2-5 more than in 1915. Of this area, 601,400 acres were plucked in 1916. The total number of plantations was 4,480 against 4,437 in 1915. The area under cultivation has increased in the last 10 Years by 21 per cent, and the production by 51 per cent. The average production per acre for the whole of India, excluding Burma (where the produce of the tea gardens is almost wholly converted into wet pickled tea, which is eaten as a condiment) was 614 lbs. in 1916 as compared with 637 lbs. in 1915. Area and Production. The total area under tea in 1916 was divided

between the different Provinces as follows:-Assam-Acres. Brahmaputra Valley ... 212,470 Surma Valley (Cachar and Sylhet). 146,702

_,	Total, A	esam	• •		389,172
Bengal	. ::.		• •		165,760
Bihar and C United Pro	inesa (Cho	_	Pur)		2,160
Puniab		• •	• •	• •	7,978 9,679
Madras	• •	• •	• •	• •	30,910
Travancore	and Coch				42,105
Burma	• •				2,841

650,823 The total production in 1916 was 368,582,688 lbs., divided between the different parts of

Grand Total

India as follows :-

Assam

Persia

				 -3-1011011
Bengal				 92,644,990
Bihar & (Trises.			 399,971
United P	CELDO			
Daniel I	COLITICE	-3		 2,352,732
Punjab	**			 1,530,101
Madras	• •			 11,364,446
Travanco	Coc	hin	• •	 17,059,801
Burma		••		 146,076
	• •	••		 110,010

Total 368,582,688

Lbs.

949 194 551

Exports.

The following were the exports of Indian tea by sea in 1916-17 :--

. United Kingdom			 224,927,894
Russia			 27,603,884
Other European	Coun	tries	 122,728
Egypt			 1,031,273
Elsewhere in Afri	ca		 1,312,590
Canada	••	••	 8,443,092
U.S.A.			 3,031,646
Rest of America			 1,741,018
Ceylon		• •	 3,047,157
Chlna			 9.229 260

9,229,260 . . Asiatic Turkey 1,482,977 1,262,899 3,654,562 5,169,899 Rest of Asla Australasia

Total by Sea

291,439,082

593,075 Total by land . .. 1.154.8 The sea and land exports to-

gether make, therefore, a Grand Total of

340,433,10 The total quantity of Indian tea importe into the United Kingdom is not consume there, a considerable portion being re-expor-ed. The re-exports of Indian ten from the United Kingdom in the past five years has been as follows :---1912

.. 19,368,000 lbs . . 1913 .. 21,830,000 1914 30,300,000 •• • • . . 24,540,766 1915 24,540,766 25,310,944 1916 The largest quantity of re-exports last year wen

to the U.S.A., which took 4,700,742 lbs. agains 2,655,876 in 1915. Next came Russia, the Canada, Chile, Denmark and the Argentine. I was discovered in 1014 that the ultimate destin ation of the tea sent to two large customer Holland and Denmark—was Germany and Austria. Germany is not a tea drinking nation but her troops wanted it. Government firs placed an embargo on these re-exports, but a it was proved that Holland could supply Ger

many with any quantity of ten from Java the embargo was withdrawn. Features of the Trade.

The most striking features of the Indian tes trade in 1916-17 were as follows: The total exports by sea decreased by 47 million lbs. of 14 per cent. as compared with 1915-16. Shipments to the United Kingdom (ordinarily, 73 per cent. of the exports of India tea is directed to the United Kingdom) decreased by 25,362,000 lbs. or 10 per cent. Russia, which is the second best customer of Indian tea in Europe, took about 9 million lbs. less than in 1915-10. She was much handleapped by freight difficulties, and expectally towards the freight difficulties, and, especially towards the end of the season, by difficulties in arranging finance. France took only 80,000 lbs, as against 183,000 lbs. in the previous year. The total exports to Europe, excluding the United Kingdom, showed a net decrease of 9,100,000 lbs. as compared with the year 1915-16. Of the African countries, shipments to Cape Colony, Egypt, Madagascar, and Zanzibar and Pemba,

which was partly set off by decreases in exports to East African ports and Natal. Of the American countries, shipments to Chile were almost double, but those to Canada and the United States were eligible to Canada and the United States were slightly less, as compared with the preceding year (1915-16). The total exports to America remained practically the same as In the preceding year, namely, 13,200,000 lbs. In Asia, the best customers of Indian tea are China, Ceylon, Persia, and Turkey (Asiatle), and the exports to these countries decreased.

increased. The total trade done with Africa

increased by 34,000 lbs. Cape Colony showing the most noticeable increase, of 22,000 lbs.

exports in the two preceding years, took about 013,000 lbs. The trade with China consists almost entirely of tea dust exported to Hankow for the manufacture of brick tea for the Russlan

Russian Turkistan, to which there were no

market. The total exports by sea to the Aslatic countries decreased by 8,175,000 lbs. Australla, New Zealand and the Fiji Islands took between

them some 4,430,000 lbs. less than in 1015-16. both by sea and by land are taken together, Exports by land decreased by 788,000 lbs. or the net decrease in 1016-17 was nearly 48 41 per cent. The bulk of the exports by land goes to Afghanistan and other countries beyond the north-western frontier. If the exports the close of the year.

QUANTITY OF EXPORTS.

The following table shows the quantity of Tea exported by sea and by land to Foreign Countries from India, Ceylon, and China, in the years 1806-97 to 1916-16, with variations in index numbers, taking the figure of 1896-97 as 100:—

			China †		
-	India,	Ceylon •	Black and green.	Brick,tablet & dust.	
1896-97 1897-98 1839-99 1839-1000 1900-01 1901-02 1902-03 1903-04 1904-05 1905-06 1906-07 1907-08 1803-09 1809-10 1910-11 1911-12 1912-13 1913-14 1914-15 1915-16	• 1bs. 160,421,245 [100] 152,344,905 [101] 158,539,488 [105] 177,163,999 [118] 192,290,658 [128] 182,591,350 [121] 183,710,931 [122] 209,552,160 [139] 214,300,325 [142] 214,300,325 [142] 225,090,328 [157] 235,099,126 [151] 235,089,126 [151] 235,089,126 [150] 250,521,064 [167] 261,515,041 [194] 302,556,697 [201] 340,433,163 [226] 392,593,014 [194]	1bs. 110,005,104 [100] 114,40,518 [104] 122,305,518 [111] 129,601,908 [118] 140,204,603 [136] 144,275,608 [131] 160,829,707 [137] 149,227,236 [135] 167,929,333 [143] 171,250,703 [166] 171,558,110 [156] 181,126,298 [164] 181,430,718 [165] 189,585,924 [172] 186,925,117 [170] 184,720,534 [168] 186,025,380 [169] 197,410,430 [170] 191,828,946 [174] 214,900,383 [195] 208,000,270 [189]	1bs, 161,538,033 [100] 137,007,600 [85] 147,007,200 [92] 163,669,067 [95] 144,270,033 [90] 119,390,000 [74] 128,226,033 [70] 140,607,867 [88] 132,366,933 [83] 112,162,533 [90] 103,384,534 [67] 120,022,206 [80] 120,265,733 [80] 120,174,800 [74] 123,047,734 [77] 137,789,033 [85] 127,826,800 [79] 103,038,000 [64] 114,659,200 [71] 143,602,000 [83] 120,260,800 [78]	1bs. 78,507,333 [100] 75,781,807 [98] 03,017,007 [87] 71,205,067 [91] 52,190,067 [00] 42,740,533 [54] 78,512,400 [100] 83,813,600 [107] 61,493,733 [78] 70,784,267 [91] 70,506,133 [101] 84,940,000 [108] 80,885,733 [103] 70,017,600 [101] 84,158,043 [107] 57,251,467 [73] 69,733,200 [89] 84,307,733 [107] 93,776,607 [119] 79,259,723 [101]	

^{*} The figures for years previous to 1905-06 relate to the calendar year as it has been found impossible to procure complete data for the official year.

† For calendar year.

The following statement illustrates the variations in prices of the three principal grades of tea sold at the auction sales in Calcutta in 1888 and the six years ending 1015, the average price of 1901 to 1910 being taken as 100 in each case. The figures represent the average of the prices per pound of tea from all districts at each sale:—

Year.			Broken Pekoc.		Pek	00.	Pekoe S	ouchong.	hong. Average for all description.	
			Price.	Vari- ation.	Price.	Varia- tion.	Price.	Varia-	Price.	Varia- tion.
1888 1910 1911 1912 1913 1914 1915	••	**	As. p. 10 3 7 3 7 9 7 5 8 1 7 10 9 1	155 110 117 112 122 119 138	As. p. 8 1 7 0 7 7 6 11 7 5 7 8 8 6	137 119 129 114 126 130 144	As. p. 6 3 6 4 6 9 5 9 6 10 6 11 7 10	123 125 138 118 185 136 154	As. p. 8 8 7 10 7 11 7 8 8 2 8 3 0 5	124 112 113 110 117 118 135

The average price of Indian tea sold at auction in Calcutta in 1916-17 was 8 as. 8 ples per lb. against 8 as. 11 p. in 1915-16; and the average declared value of exports by sea was 9 as. 2 ples per lb. against 9. as. 5 p., in 1915-16.

The following table shows the quantity of tea, green and black, available for consumption in India during the years 1909-10 to 1915-16:—

Year.		Lbs.		Year.		Lbs.
1909-10	 	13,477,297	1	1918-14	 	22,790,704
1010-11	 	14,224,808	1	191415	 	19,290,819
1011-12	 • •	15,294,472		1915-16	 	41,311,788
1912-13	 ••	21,730,066	- 1	1916-17	 	85,256,846

It is reported that in some of the coffeegrowing districts coffee is giving way to tea, or where the altitude is not prohibitive, to rubber. The advent of large supplies of cheap Brazilian coffees in the markets of Europe has, by bringing down prices, no doubt injured the coffee industry of India very seriously; but the following figures of export trade show no market change in the position since 1902. Except in the last two years:—

				Cnts.			
1902-03	••	• •	••	209,165			
1903-01		••	• •	201,254			
1904-05		••		329,017			
1905-06			• •	360,182			
1900-07	•	• • •	• •	223,001			
1007-08	• •	• •	••	214,234			

1008-09	••	• •	••	302,022
1900-10	••	• •	••	232,045
1010-11	••			272,210
1911-12	••		••	211,035
1912-13	• •	••	••	267,000
1913-14	••		••	200,000
1014-15	• •	••	• •	290,000
1915-16	••	••		177,000
1916-17		• •		191,000

The exports to the United Kingdom have in the last few years fallon off considerably, there has been a great diminution in the trade with France, but exports to other Continental countries have shown some increase. No estimate of the quantity of coace consumed in India can be given.

OILS AND OIL CAKES.

The 1016-17 trade in seeds was marked by a considerable increase in the quantity exported and by high prices and strong demand for linseed in England. The value of the exports increased from Rs. 10,12 lakhs, in the preceding year to Rs. 16,44 lakhs, the increase being accounted for as follows:—Rs. 4,43 lakhs due to greater volume of exports and Rs. 1,80 lakhs to higher prices.

A pamphlet on the subject recently published by the Commercial Intelligence Department points out that it is both economically and industrially unsound for India to export her oil seeds instead of manufacturing the oils and oil cakes in India. It allows other countries to reap the manufacturers' profits and at the same time deprives Indian agriculture of the great potratial wealth, as cattle-food and manure, contained in the oil cakes. An immense quantity of oil is, as a matter of fact, already manufactured in this country by more or less crude processes. Village oil mills worked by builocks and presses worked by hand exist in all parts of the country and supply most of the local demand for oil. There has also been a great increase in recent years in the number of oil mills worked by steam or other mechanical power. These crush all the commoner oil seeds and development has been especially marked in the case of mustard oil, castor oil and ground-nut oil. In spite of all this there has been a perceptible diminution in the export of oil from India, particularly of coconnut oil and linseed oil, and an increase in the export of oil seeds, which is particularly marked in the case of copra and groundants. The situation creak by the War has naturally led too much discussion of the possibility of developing on a large scale the existing oil-milling industry in India.

There are three difficulties with which any proposal to develop in India an oil-milling industry on a great scale is faced. In the first place, there exist high protective tarilis in European countries which encourage the export from India of the raw material rather than the manufactured product. Secondly, there is a better market for the oil cake in Europe than in India and the freight on oil seeds is less than the freight on cake. Thirdly, it is much easier and less exponsive to transport oil seeds by sea than it is to transport oil. While this has been the position in the European markets, Indian made oils, other than coccanut oil, have made enough headway in Eastern markets to suggest the possibility of a development of those markets.

The problem of finding a market for oil cakes is equally important. The value of oil cakes is much better appreciated in Lurope than in India. The Indian cultivator is prejudiced against the use of machine-made cake as a cattle food or as manure because he consulers that it contains less oil and therefore less nourishment than the village-made cake. He is therefore unwilling to buy it except at a reduced price. His prejudices on this point have no justification in fact since experts are agreed that full cake is a better food for cattle than village-made cake. Even when the mill cake contains less oil than the village cake, there is rill more oil in the cake than cattle can digest. The excess of oil in the village cake, where it exists, is a drawback and not an advantage to the use of the cake as food. A considerable amount of demonstration work has been done by the Agricultural Departments of Government in order to remove the cultivator's prejudices and there is said now to be an increasing demand for most classes of mill cake.

The Forests.

The necessity of protecting the wast forest lished a local Forest Februarian the training areas in India and Jurma was first recognised of the lower subordicate establishment. in the Madma Pre-idency nearly a century ago, when steps were taken to protect on a limited scale the more valuable areas in the Anamalis, while in December 1880 Doctor Cleghorn was appointed the first Conservator of Porcets in that Presidency. It was not, however, until 1656 that Lord Dalhousie laid down a definite policy with the object of affording more widespread protection to the vast areas of valuable forest in British India. The action taken by the Supreme Government came none too soon. for already in many localities the wanton backing by the local population and even more to by limber contractors, had reduced the forests to a state from which they could not be ex-pected to recover for many years, even under the strictest protection.

Recruitment of the Staff.

In order to introduce a system of conservative management on scientific lines it was of first importance to collect a staff of trained foresters. and as no forest training college existed at that period in England, the Government of India, as a commencement, enlisted the services of three German Porest Officers. The first of these to come to India was the late Sir Detrich Brandis, E.C.LE., P.E.S. and it was to his extraordinary energy and abilities that a sound foundation was originally le ; to the scientific management of the Statendus-Is. Soon after Sundarbans, while the Andaman Irles a bis arrival in India, thending was materially strengthened by the "If funct of officers from the Indian Army or 2.50 the first batch of technically-trained" [50sh forest officers joined the service, but well their training either in [6,3], 2.57 mee, and this system of 2.78 for taninum remained in system of 2.78 for taninum remained in force until 2.8 at which the training was turn of timber and fuel in that year amounts carried on foiling the National Forest school of Nancy. The batch of Coopers Hill trained foresters arrived in India in 1887 and the last in 1907, after which date the training was 117 lakins of rupees, while the same of the service of Rs. 1,31,78,817. The learned to 250 million cube feet, The learneds remove were valued at 12.7 lakins of rupees, while the same of the service of Rs. 1,31,78,817. The learned to 250 million cube feet, The learneds remove were valued at 12.7 lakins of rupees, while the same of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,78,817. The learned feet of the service of Rs. 1,31,48,817. The lear management of the Statendusts. Soon after and the last in 1907, after which date the training took place at Oxford University, and later also at the Universities of Cambridge, Edinburgh and Dublin. In this way the Government of India have been able to collect by degrees a highly trained staff of men to carry on the administration of their State forests. The total strength of the Imperial Establishment at the present time 1s 237, of whom 29 are administrative officers and 219 Executive officers, among the latter are included Instructors and Research Officers who are employed at the Forest Research Institute, Dehra Dun.

In order to keep pace with the recruitment of the superior staff, a Forest School was opened in 1878 at Dehra Dun for the training of Forest Rangers. Recently this School has been con-verted into a College and the instruction extended to include a course for training men for out the forest. In a few cases ruch as in deeds the Provincial Services. Besides the Forest and other conferous forests and also in a few cases and also in a few cases ruch as in deeds the forest and other conferous forests and also in a few cases ruch as in deeds the forest and other conferous forests and also in a few cases ruch as in deeds the forest and other conferous forests and also in a few cases ruch as in deeds the forest and other conferous forests and also in a few cases ruch as in deeds the forest and other conferous forests and also in a few cases ruch as in deeds the forest and other conferous forests and also in a few cases ruch as in deeds the forest and other conferous forests.

Aren of State Porests.

The foreste belonging to the State corend ln 1915-16, 242,000 rquare miles, or roughly one-fourth of the whole of India and flurma. Of this 92,205 square miles for Received Forests and 140,003 square miles for chased forests, by far the greater portion of the chased forests, by far the greater portion of the latter class occurring in Burms. The distribution of these areas is by no means uniform the majority being found in Burms, Accu-Northern Bengal and along the foot of # extending into the Himsisyns from the Nor frontier westward through the United Pr vinces and the Punjals. In the Ganzetic valle in the plains of the Punjab, in Sind and Pa putana few fore-te occur except along the river nor does one come zeross large monicil trac until one enters the Central Provinces and the Godavari cateliment area. From there sout ward in the Satpuras and throughout the Nor and South Decean there exist well distribute areas of forests, though generally not in lan blocks, while on the Western Ghats, in the blocks while on the Western Ghats, in the Nilvins and Anamalis, are found some of the finest tests forces of India proper. The Fa Cost of India 1 fully well stocked with for growth, especially in the Godavari hadin, it is the test of Costs of the second property of the second p the west of Cuttack and Puri and acain in the Sundarbans, while the Andaman liles a

was 117 laklis of supeca.

From the above figures it will be readil understood that not only is the revenue realise by the State considerable but that the hand ling of such large amounts of Forest Produc requires a competent staff of officers.

Management

The system under which the State forest are eystem under which the State ions are managed varies in different Province. In all cases, however, the aim of the Fore Department has been to introduce Workin Plans for their forests, based on Europea systems of management. The system measually adopted in India, especially for working the valuable teak and all forests, is the Selection System in other groups maintain. Selection System, in other words maintaining an equal distribution of all age classes through the Provincial Services. Besides the Forest and other configuous forests and also in a fet College at Debra two new Rangers' Schools instances in all forests, the Uniform Metho have been established, one at Pylmanan in or a system by which trees of more or less and also in a fet Burma and the other at Colmbatore in Madras, uniform age are grouped together has been besides this nearly every Province has estab-

management may come into more general use in the future, as a greater number of trained officers become available. In many cases, owing to the destruction of the forests in the past, it has only been possible to prescribe improvement Felling, though in time a more regular system of working will be introduced. The forests which are destined to supply small building timber and fuel to the local population are generally worked by either the Cop-pice with Standard or Pure Coppice methods, according to the state and composition of the forest, while certain areas have been put aside for the formation of Fuel and Fodder Reserves or as grazing areas.

Forest Surveys.

The preparations of maps for the State Forests is undertaken by the Great Trigonometrical Survey Department. The area for which detailed surveys have been prepared was roughly 83,860 square miles in 1914-15, to which figure yearly additions are being made. As soon as possible after the compilation of detailed maps, Working Plans are prepared for the forest, and up to 1915-16 about 57,444 square miles of Forests have been dealt with.

Method of Extraction.

Once the forests have been organized and plans of working prepared by an officer put on special duty for the purpose, it remains for the executive officers to arrange for the exploitation of the trees, according to the pro-visions of the sanctioned plans. This work is carried out in various ways in different localities. Sometimes it is done departmentally, as for instance in certain divisions on the West Coast and also in three or four of the western Pegu Yoma divisions, in Burma. This system which had to be adopted by the Department when mork was first commenced and con-tractors could not be obtained, has now gene-rally been replaced by a system of giving leases to work the forests or by selling the annual coupes standing to contractors. In the case of the valuable teak forests of Burma the system of granting leases for a period of from 10 to 20 years has generally been adopted and has been found to work satisfactorily, the trees for felling being marked by the l'orest Department. In other provinces this system has been adopted on a more restricted scale, and in India proper the custom of holding annual sales and selling the trees standing has been found more convenient and profitable. The right to collect Minor Produce is generally The right to collect Minor Produce is generally put up for auction, which gives the highest bidder the right to collect the produce from the forest for a given period, generally one year. In order to meet the requirements of the local population a system of issuing permits is in force, the permit being issued free to right be privilege holders and on payment of a low fee to other persons. This cnables agriculturists to obtain their requirements as to fuel, building timber and grass, etc., without dealy and without having to pay enhanced out delay and without having to pay enhanced rates to a middleman. The right to grazing Is dealt with in the same way.

Important Timbers.

by the public. For instance the number of tree species is about 2,600, while the number of woody shrubs and climbers is not far short of that total. Of all Indian species of timber teak stands first, both in quality and as to the amount annually exported from the State forests. Sal comes next in importance and is obtained in the greatest quantities from the United Provinces and Nepal, while a very considerable amount is also available from Bengal, the Central Provinces, Assam and the Feudatory States of Orissa. Of other species of nearly equal importance is deedar, the timber of which is extended to the the timber of which is extensively used in construction and as railway sleepers; sandalwood, sissoo and blackwood, the last two timbers being highly prized for building purposes and furniture making; the sundri-wood of the Sundarbans and Bassein, used in boat of the bundarbans and Bassen, used in boat and carriage building; Andaman and Burman Padauk, used for the construction of gen carriages, furniture and rallway carriages; the Pyinkado of Burma, used in building and one of the first sleeper woods in the world; the Red Sandars of Madms, babul, the in or eng wood of Burma, all used for building and for a vertex of the reference and their forms. for a variety of other purposes and Khair from which "Cutch" is obtained. A great variety of other useful timbers could be mentioned of nearly equal importance to the above, which go to supply the requirements of the enormous population of the Indian Empire.

Minor Forest Products.

Turning now to Minor Forest Products, the most important come under the main heads, fibres, and flosses, grasses, distillation products, oll seeds, tan and dyes, gums and resins, rubber, drugs and spices, edible products, bamboos, canes, and animal and miscellaneous products. The number is very large, while products. The number is very large, while some of them are of considerable economic importance, so much so that they realized over 117 lakhs of rupees in 1915-16. It is not possible to do more than to mention one or two of the most important of these commodities, as for instance myrabolans for tanning. Cutch is of even greater importance, being produced chiefly in Burma and the United Provinces though also prepared on a more limited scale elsewhere. Another equally well known product is lac, produced chiefly in Sind and the Central Provinces which besides being used locally, is annually exported in the form of shellac, of other Minor Forest Products which deserve mention are rosha and lemon oils; gum kino, babul gum, gurjan oil, thitel damar and rubber, which are classed as exuded products; sabal grass for papermaking and muni grass for fibre and thatching; mohwa seed yielding a valuable oil, sandal and agar wood oil and the essential oils obtained from them; simul flow used for stuffing pillows; kamella powder and lae dye used for dycing; podophyllum resin, carein hark, cardamome, pepper and strychnine, come under the head of drugs and spices; and a variety of other products often of considerable local values.

From what has been sall above it will be seen that the Minor Products obtained from The forests of British India contain a vast the Indian fore to play by no means a small number of trees and woody plants, in fact at part in the economy and commerce of the far greater number than is generally realized country. The statement below relating to Exports of Forest Products is taken from the "Annual. Return of Statistics relating to Forest Administration in British India" for 1815-16, recently and to-

Articles of Forest Produce.	20 cwt.1s of teak timber	in Tons of n the case and other a, cubic	Valuation at Port of Alipment in 1915-16.	
	Average of 5 years 1910-11 to 1014-15.	In 1015-16.	Total.	Per Ton.
		1	R<.	Rs.
Caoutchouc, raw	. 836	2,354	1,24,67,226	5,031
Button	1,403	623	5,75,805	993
Lac Shell	. 16,235	17,973	1,54,73,836	803
Stick, seed and other kinds .	2,053	2,295	11,26,171	401
Cutch and Gambier	3,617	7,276	24,19,939	533
Myrabolams	. 66,910	69,633	70,52,832	101
Cardamoms	. 153	215	7,43,938	\$,460
Sandal, Ebony and other ornaments woods	(a)	(a)	15,58,120	
Tenk	. 51,649	\$2,403	60,56,861	187
Other timbers (excluding firewood) .	6,352	9,032	2,56,122	71
,"			Ils. 4,79,30,443 4,17,49,407	

							115.	
Total in	1915-16		**	**	• •	• •	4,79,30,443	
 99	1914-15		• •	• •	• •	• •	4,17,49,407	
23	1013-14	• •	• •				4,51,25,118	
23	1912-13		• •	• •			4,67,80,610	
**	1011-12	• •		• •	• •	••	3,96,38,932	

(a) Quantity (whether by weight or measurement) not recorded

FOREST INDUSTRIES.

In a brochure published in 1917 the Govern-1 ment officially reviewed their work and indicated the scope of its development and its potenti-The most interesting part of this memorandum was that which summarised the develop-ment of Indian forest industries. First amongst these was placed the Indian pine resin industry. In this it was stated that from very small beginnings in the United Provinces and later in the

ing account profit Rs. 1.46,704, while the invest-ed capital stood at Rs. 1.61,905. The possible lities of development of the pine industry are considerable.

Next in regard to paper it was pointed out that the present demand is supplied by the mills in India to a small extent. Of the total demand the Indian paper mills produced in normal times about 25.00; tons which during the wat In this it was stated that the provinces and later in the pullar in the United Provinces and later in the Punjab the industry has grown until for the year and paste board in India in 1011-15 amounted to 60,080 maunds net (2,592 tons), the operations covering 62,000 acres of forest with 2,141,000 blazes or channels in work giving with 2,141,000 blazes or channels in work giving at about 75,000 tons per annum of which India to make the pullar that the matter of paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,372 of including note paper at a total of £ 870,203. The demand for paper in India may therefore be put at about 75,000 tons. In the matter of paper pull at about 75,000 tons. The matter of paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,203. The matter of paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,203. The meaning part of the paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,203. The meaning part of the paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,203. The meaning part of the paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,203. The meaning part of the paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,203. The meaning part of the paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,203. The meaning part of the paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,203. The meaning part of the paper and paste board in India in 1011-15 amounted to 51,330 tons valued at £ 70,372 tons amounted to 51,330 tons valued at £ 70,372 tons amounted to 51,330 tons valued at £ 70,372 tons amounted to 51,330 tons valued at £ 70,372 tons amounted to 51,330 tons valued at £ 70,372 tons amounted to 51,330 tons valued at £ 70,372 tons amounted to 51,330 tons valued at £ 70,372 tons amounted to 51,330 tons valued at £ 70,372 tons amounted to 51, employment to at least 2,400 operatives. The supplies one-third. In the mutter of paper purgross revenue was Rs. 5,04,249, the gross trading account profit Rs. 1,78,892 and the net trading account profit Rs. 1,78,892 and 1,78,892 an

grass, which is obtained from the fore-ts of landing the timber at the factory site has in many Bengal, Chhota Nagpore, Orissa, Nepal and the cases turned out to be excessive. In spite of United Provinces. The enormous supplies of these difficulties the industry still persists and bamboos and elephant grass available could be utilised for the manufacture of the \$0,000 tons of paper and parteboard which India now imports annually.

Another promising forest industry is matches, The imports of matches in 1914-15 amounted to nearly 151 million green boxen valued at Ra. 113 tal.hs. The difficulties under which the industry labours is that imported matches are very cheap. Great difficulties had been ex-perienced in obtaining first class indigenous timber within the working figure of cost, rallway freight has hit the local trade and the cost of

cases turned out to be excessive. In apite of these difficulties the industry still persists and the solution of the problem in Northern India is found to lie in the erection of portable or semi-portable splint machines in tho vicinity of the apruce and silver fir forests and

by exporting the prepared spilints to central match factories in the plains. Another promising industry is the antiseptic treatment of timber which has given good results but for its full development requires the establishment of the manufacture of coal far creesote locally. The following figures show the steady growth of the forest revenue in recent years,

Financial results of Forest Administration in British India from 1801-05 to 1013-14 (in laklis of rupecs).

Quinquennial per	lod.		Gross rovenue (averago per annum).	'Expenditure (average per annum).	Surplus (average per annum).	Percentage of surplus to gross revenue.
***************************************			Lakhs	Laklıs	Lakhs	Lakhs.
1864-65 to 1863-69			37.4	23.8	13.6	36.4
1869-70 to 1873-74		• •	56.3	39.5	17.0	30.2
1874-75 to 1878-70	• •	• •	66.6	45.8	20.8	31.2
1879-80 to 1883-81			88.2	56.1	32.1	30.4
1884-85 to 1889-89			116.7	74.3	42.4	36.3
1889-90 to 1893-91		• •	150.6	80.0	73.5	40.1
1691-95 to 1898-99	••	••	177.2	93.0	. 79.2	44.7
1899-1900 to 1903-04	• •	••	196.6	112.7	83.9	42.7
1904-05 to 1908-09			257.0	141.0	116.0	45.1
1009-10 to 1913-14	••	••	206.0	163.7	132.3	44.7

the surplus has increased nearly ten-fold during the last fifty years, and that it averaged £ 882,000 sterling per annum during the last quinquennial period, without including the large sum represented by the value of forest produce given away free or removed by right holders, which at a rough estimate amounts to over £ 400,000. The in-

This statement exhibits the striking fact that perease in the surplus is all the more satisfactory when it is considered that all capital expenditure has been met from revenue and that a considerable proportion of this expenditure is incurred on slivicultural and other operations which as a rule do not show any return for a long period of time.

2					iorests.		
; ·	Surplus.	ા	12,237 54,500 36,580 335,150 11,027	80,065 1,560 7,495	5,412 172,057 46,154	700,880	1,050,580 1,000,134 807,386 810,762 740,343 716,384 756,070 828,512 827,738
	Expendi- ture.	अ	154,729 154,729 150,037 15,038 15,038	.69,880 129,782 11,782 8,373 1,140	1,733 17,204 100,712 165,802	+1,213,703	1,109,564 1,129,771 1,129,771 1,019,710 081,710 067,528 037,587 050,568
	Rovenue.	다	86,000 200,010 05,807 047,180 36,052	25.05 25.05	1,271 22,016 262,700 312,016	*1,080,052	2,220,103 1,527,47,321 1,527,030 1,735,053 1,607,120 1,724,108 1,776,000 1,776,300 1,776,300
Produce.	Minor Produce.	타	22,028 68,313 151,512 56,102 15,870	160,193 1,584 1,884 1,584 1,584	2,804 263 113,743 74,754	717,552	710,027 738,078 708,982 035,188 654,005 656,000 661,144 601,300 387,796
Outturn of Produce.	Timber and Fuel.	Cub. ft.	21,511,749 16,307,510 34,040,355 63,820,613 18,252,302	1,361,800 38,610,617 602,030 4,079,842 364,707	270,200 1,765,700 20,822,535 41,539,410	270,465,460	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Propor-	tion of Forests to whole Ame of Province	Per cent.	13.7 03.3 03.4	32.0 22.0 6.1	70.2 13.8 10.1	23.16	84848484848484848444444444444444444444
	Total.	Sq.		10,740 10,007 10,007 11,00 11,00	2,207 10,630 12,433	240,867	246,013 243,023 243,478 245,651 245,651 237,800 240,138 233,051
Forest Area.	Un- clarsed Stato Forests,	Sq.		18,218	2,122 7,022 7,022	141,882	140,026 133,604 138,316 140,203 138,378 134,807 130,033 131,137
Fores	Protected ted Forests.	89.	•		1897	10,405	8,390 8,490 8,490 8,490 8,814 8,838 8,853 10,018 0,435
	Reserved Forests.	300	4,871 4,201 2,105 28,230 1,727	10,628 10,607 10,007 11,520 11,520 11,520	313 85 18,877 11,040	02,580	06,207 06,607 06,148 06,387 06,387 04,501 04,037 02,406 02,189
	Area of Province	Š	78,875 100,725 00,650 224,851 83,125	48,015 00,947 1,682 13,057 2,707	54,228 3,143 142,261 123,020	1,070,140	1,070,638 1,070,163 1,071,010 1,042,718 1,040,666 1,042,477 1,025,345 1,025,345
			:::::		::::	:	:::::::::::::::::::::::::::::::::::::::
			Btates)	Berar . vylače	::::	:	:::::::
	Province.		vinces	Control Provinces and Berar. Coots North-West Frontler Province Mmer-Mervara	* * * * :	Total, 1014-15	1013-14 1012-13 1011-12 1010-11 1009-10 1007-8 1006-6 1006-6
	•		Bengal United Provinces Punjab Burma (Including Lihar and Origan	Acram Control Provinc Coors North-West Fr Ajmer-Merrara	Baluchistan Andamans Madms Bombay	Tot	Totals

RUBBER CULTIVATION.

The most important rubber-yielding tree double that of Burma, where most of the trees found growing naturally in the Forests of India being less than six years old are not yet prois Figure dartica, a very large tree of the outer Himalayas from Nepal castwards, in Assam, the Khasia Hills and Upper Burna. It has also been cultivated in Assam in the Charduar plantation in the Texpur Sub-Division, as also in the Kulsi plantation of the Gaulinti Sub-Division in the Kamrup Division. There are also a number of other rubber-yielding trees found in the Indian and Burman forests from which rubber can be collected on terms quoted by Government. Attempts have been made to cultivate Para, Ceara and Castilloa in various parts of India and Burma, In India proper the chief attempts were made on the west coast, about 180 acres being planted from 1008 onward at Gersoppa. Similar attempts have been made in Madras; but at present Para rubber is being grown as a commercial product rather in Burma than the rest of India.

The production of rubber in India is confined to Assam, Burms, and the Madras Presidency :-

				Acres.	No. of trees.
Assam		••		4,681	137,430
Madras				12,022	1,036,476
Burma				29,544	4,911,390
	7	Cotal	•••	40,247	0,085,305

ductive. All planting is stump planting about 0 to 12 months old. The trees can be tapped in four years from the date of planting. The average yield in Burna from 4 to 0 years old trees is 1\(\frac{1}{2}\) to 3 lbs. per tree per year. The capital invested is from £22 to £25 per acre. The average cost of production is about 1s.

6d. to 1s. 104d. per 1b.

There has been a steady development in the exports of rubber from India. The exports of rubber from India. The exports increased from 23,261 cwts., valued at Rs. 70 lakin, in 1013-14 to 32,825 cwts., valued at Rs. 034 lakin, in the year 1014-15 and to 47,000 cwts., valued at Rs. 1264 lakin 1015-16. In 1916-17 exports of raw rubber were 07,000 cwts, valued at Rs. 1,58 lakhs. Kearly seventenths of the exports were from Madras and the remainder from Burma.

The Commissioner of Settlements and Land Records, Burma, gives the following rough (sil-mates of future production-

1915	 	 1,500,000	104.
1916	 	 1,800,000	
1017	 	 3,000,000	

BIBLIOGRAPHY.—For fuller details see "Dictionary of the Economic Products of India" and the abridged edition of the same published in 1908 under the title! The Commercial pro-The yield of Assam plantations is relatively ducts of India" by Sir George Watts; and the small, and the number of trees to the acre is "Commercial Guide to the Forest Economic much less than in Madras and Burma. The Products of India" by R. S. Pearson, puboutturn of Madras in 1913 was more than lished by the Government Press, Calcutto, 1912.

MATCH FACTORIES.

The total imports of matches into British India in 1915-16 were over 18 million gross, valued at approximately Rs. 1,38 lakhs or £922,000. In 1916-17 there was a sethack in the imports of matches, 11 million gross being imported against 10 million gross in the previous year. British matches have almost disappeared from the market. Japanese matches are ordinarily of very inferior quality, but they are cheap, and as the Indian is content with a poor quality at a low price, these matches are occupying the market to the exclusion of the more highly priced matches and even to the detriment of the cheap Swedish matches. The percentage shares of the United Kingdom, Japan, and Sweden in the pre-war year were 753, and 20 respectively;in1916-17 the percentages were 4:83, and 13. The development of the trade in recent years is of me than ordinary interest, and the figures in the following tablespeak for themselves:—

				1.	Twel	re months,	April to Mar	ch.
					1913.	1014.	1915.	1916.
Japan Sweden Norway Austria-Hungary Relgium Germany Straits Settlemen Japanese manu Other countries	s (chiefly of	000 gross	22 21 21 21 21	• • • • • • • • • • • • • • • • • • • •	7,200 4,226 1,410 1,154 347 351 248 81	7,287 8,036 805 1,377 307 180 80	10,478 2,877 049 815 172 . 06	15,278 2,321 544 . 38 7

In normal years matches are also imported from Austria-Hungary, Germany and Belgium. In the opinion of the Forest experts at Dehra Dun there is an abundance of raw material in this country for match manufacture.

Indian timbers for matches.—In an article in the Indian match industry which appeared in the Indian Agriculturiat the woods of the

following species are said to be employed in Burma for match splints: Bombax insigne, B, malabaricum (simul), Anthocephalus Cadamb, (kadam), Sarcocephalus (cordatus, Sponding mangifera (amra), and Engelhardita spicata (palash). These woods are not the best for the purpose, but are those most early procurable. There are other kinds of white wood, such as

Mines and Minerals.

Tetal value of Minerals for which returns of Production are available for the year 1015 and 1016.

علاقت داده به ایک					·
Mir tal	1015	ivic.	Increase.	D en ave.	Variation Per cent,
Belleville, Spiny Spill - selectory Line properties and properties of the complete	į į	£	č	£	!
65d	2,762,646 2,762,646	2,502,623	27,500	66,823	4.2.0
Hangarose ore	020,546 3,665,182	1,447,026 1,119,405	557,450 54,223		‡(g)
saltpete	660,234 273,891	729,759 607,459	69,104 213,597	1	‡10°3
Tungstenede	294,772 316,162	466,604 429,553	169,852 112,201		‡57:2 ‡35:5
Mica (a) Building Materials and road metal.	204,652	201,531	127,733 4,652	****	+00.4 +00.4
Silver Tin-ore and Tin	51,150 54,050	89,657 71,416	57,637 10,436	••••	+181:7 +20:0
Jade biene in	82,878 844,18	45,020 37,041	0,005	3,144	+19.1
Monarite Ruby, Sappater and Spinet.	811,239 56,1295	37,714 37,513	4,476 1,215	****	+13.2 +3.2
Chromite	5,531 5,973	16,401 14,065	12,670 10,002		+361.6 +251
Alum Zinccore II II II	4,593 174	0,205 6,610	1,812 6,632	****	+11.5
Clay Copper-ore	3,53 1 14,391	4,645 n,250		11,122	+21:2 -77:5
Corundum Steatite	277 2,578	2,783 2,628	2,606 60	••••	+1.0 +1.0
Smplith Ochre	158 450	1,501 911	1,343 452		· ‡850
Agate	1,018 - 979	783 745	****	236 231	_23:2 _23:9
Autimony-ore	236 29	503 463	207 434	بر مر	+113.1
Diamond	603	361 202	202	212	10
Amber	199 100	157 46	••••	42 51	16 54
Total	10, 157,881	11,023,016	1,517,632	81,597	+14'2
•			+1,4	65,785	

The feature which stands out most promineatly in a survey of the inheral industries of India is the fact that until recent years little has been done to develop those inherals which are essential to modern metallurgical and chemical industries, while most striking progress has been made in opening out deposits from which products are obtained sultable for export, or for consumption in the country by what may conveniently be called direct processes. In this respect India of to-day stands in contrast to the India of a century ago. The European chemist armed with cheap supplies of sul-pliuric acid and alkall, and alded by low sea freights and increased facilities for internal distribution by the spreading network of railways has been enabled to stamp out, in all but remote localities, the once flourishing native manufactures of alum, the various alkaline compounds, blue vitriol, copperas, copper, lead, steel and from, and scriously to curtail the ex-port trade in nitre and borax. The reaction against that invasion is of recent date. high quality of the native-made fron, the early anticipation of the processes now employed in Europe for the manufacture of high-class steels, and the artistic products in copper and brass tave the country a prominent position in the nuclent metallurgical world, while as a chief source of nitre India held a position of peculiar political importance until, less than forty years ago, the chemical manufacturer of Europe found among his by-products, cheaper and more effective compounds for the manufacture of explosives.

With the spread of railways, the development of manufactures connected with jute, cotton and paper, and the gradually extended use of electricity the demand for metallurgical and chemical products in India has steadily grown. Before long the stage must be reached at which the variety and quantity of products required, but now imported, will satisfy the conditions necessary for the local production of those which can be economically manufactured only for the supply of groups of industries.

Coal.

Most of the coal mised in India comes from the Bengal-Gondwana coal-fields. Outside Bengal the most important mines are those at Singareni in Hyderabad, but there are a number of smaller mines which have been worked at oue time or another.

Years 1015 and 1016.

Province.	1	1915.	1916,	1
		Tons.	Tons.	i
Assam' Baluchistan	**	311,296 43,607	287,315 42,103	o l
Bengal Bluar and Orissa Burma	••	4,975,460 10,718,155	4,992,376 10,767,683	in a I
Central India Central Provinces	•••	139,680	200,285 287,832	I

Provincs 1915. 1916. Byderabad	a waterways a day seem to move		
Hyderabad	Provinc .	1915.	1510
Total 17 100 032 17 251,509	North-West Frontier Province Punjab	650,524 60 67,011	615,299 77 47,449
TOTAL AND THE PROPERTY OF THE PARTY OF THE P	Total	17,108,932	17,251,700

The growth of the Coal Mining Industry may be roughly gauged from the following. table showing the number of Joint-Stock Cou Companies and their total paid-up capital.

			No,	35.5
1006-07			. 60	200 lakin
1907-08	• • •		*** 116	432 #
1008-00	• •		125	655 H
1000-10	* 4	* *	128	731
1010-11 1011-12	• •	• •	123	723 11
1912-13.	* *	• •	1. 139	716
1012-14	• •	**.	343	725 11
1014-15	• •		145	711 H

A typort on the production and consumption of coal in India, recently lested by the Department of statistics shows that for the years 1578-1880 the average annual output of the Indian collicries was less than a million tens, whereas in 1915 the total was more than seventeen times that figure. Within the past ten years the expansion has been most marked, the output of 17,104,000 tons in 1015 comparing with a production of 8,417,000 tons in 1905. With the extension of railways and the development of industries, there has been an enor-mous increase in the consumption of coal in-India. Precise information respecting this consumption is not available, but an estimate places the total for 1915 at 16,511,000 tons, of which the railways absorbed 5,187,000 tens. The estimate for the railways, however, relates to the official year 1915-16. The consumption by jute mills in 10151s estimated at 850,000 tons by cotton mills at 1,121,000 tons, by iron and brass foundries at 1,332,000 tons, and by brick and tile manufactures at 1,197,000 tens, while bunker coal is stated at 868,000 tens. large consumers are inland steamships, which, according to the estimate, took 619,000 tons, and ten gardens, which consumed 165,000 tons. Provincial production of coal during the Consumption at the collieries and wastage are computed to have accounted for a further 1,710,000 tons, leaving a balance of 3,206,000 tons for other for tons for other forms of industrial enterprise and for domestic purposes. There are no data for forming an action of the continuous and the continu forming an estimate as to the distribution of the ast named total.

> Prices. The considerable increase in the output in 1915 combined with the lack of sex-borne transport resulted in a considerable fall n the pit's mouth value in the chief producing areas, the price falling in the Bengal fields from Rs.3-13-10 per ton in 1014 to Rs. 3-6-2 in 1916, and in Bluar and Orissa from Rs. 5-3-4 to Rs. 2-15-6. In 1916 the average pit's mouth value in Bengal rose to Rs. 3-8-9, and in Bihar and Orissa to Rs, 2-15-10.

GOLD.

The greater part of the total cityal of gold In India is derived from the Kolar gold Lill in Mysore. During the fast decade the production of this mine reached its highest point in 1305 when 616,768 ounces were raised. In 1906 the quantity won was 565,200 number and this figure foll to 525,055 numbers in 1907. The figures for the latter years reveal a small improvement. The Niram's mine at Hutti in Hyderalad comes next, but at a respectable distance, to the Kolar Fold field. This mines was opened in 1993. The only other mines from which Fold was raised were those in the Dharwar district of Bombay and the Anantapar Dharwar district of Bombay and the Abantapur district of Madras. The Dharwar mines gave an output of 2,903 onnecs in 1911 but work there exact in 1912. The Abantapur mines gave their first output of gold during the year 1910, the amount being 2,502 onnecs, valued at Re. 1,51,500. Gold mining was carried on in the North Arcot district of Madras from 1803 till. 1000, the highest yield (2.554 canera) being obtained in the year 1808. The Kyankparat rains in Upper Burma was worked until 1993, when a locally for making jewellery. the pay chute was lost and the mine closed .

down. In 1902 decision operations were flarted on the Irranad ly space hear Mylkinia, and 216 cunces of call were of talted in 1994; the amount steadily increased from your to very and reached 8,415 onnors in 1969, Lut-iell to 5,972 onnors in 1910 largering aron to 6,339 conserve in 1911 and being in 1917, only 5,731 outpers. The gold crare, which was presalent in Randoon a few years are, has disappeared as an idealy as it strand the The Burma Geld Brokensy Company Politic right to dredge for g. 't in the bed of the Irramaddy river and notalth-fanding the obetades encountered from time to time in the shape of ficely, etc., the company has so far been fairly specified in its operations. The small quantity of poly produced in the Punjab, the Central Provinces, and the United Province is obtained by washing, Gold washing is carried on in a great many districts in India, but there is no complete record of the amount obtained in this way. The average earnings of the workers are very small, and the gold thus won is used

Quantity and Value of Gold produced in India during 1915 and 1916.

,;			1015.	,	1916.		
*,				Quantity,	Value.	Quantity.	Value.
Bilar and Orius— Singhbhum Burma—				Ozs 450	2,500	O24.	g,917
Myitkyina Katha Uppir Chindw			ا - إدروه - د د	2,106°83 16°99 59°23	11,915 01 205	1,001:05 21:21 46:00	7,243 85 872
Shinebo Salween Hoderalisd	* *	• • • • • • • • • • • • • • • • • • • •	::	1.50 1.50 17,600.1	26 3 09,885	7:31 6 18,637:2	20 21 71,577
Mytore Panjab	••	•• ••	:: 1	20,670 571,199 149:59	101,324 2,183,409 604	22,371 351,391 186:23	04,783 2,124,123 810
United Provinces	• •	Total	; j.	616,728-21	2,000,810	7163 (318)5(318)	2,800,020

PETROLEUM.

areas—one on the east, which includes As-am, Burms, and the Islands off the Arakan coast. This belt extends to the productive oil fields of Sumatra, Java, and Borneo. The other area Is on the west, and includes the Punjab and Baluchistan the same belt of oil-bearing rocks being continued beyond the borders of British India to Persia. Of these two the castern area is by far the most important, and the most auccessful oil fields are found in the Irrawaddy valley. Yonnangyaung is the oldest and most developed of these fields. Native wells have been at work here for over 100 years, and in 1886, prior to the annexation of Upper Burma, the mutual is without the second over

Petroleum is found in India in two distinct small supply of petroleum before 1891, in reas—one on the east, which includes As-am, which year drilling was started by the Burma purms, and the islands off the Arakan coast. Oil Company. Singu now holls the second place among the oil fields of India. Petroleum was struck at the end of 1901, and in 1303, 5 million gallons were obtained. In 1907 and 1908 the production of this field was 43 million gallons, and after a fall to 511 million gallons in 1910 it rose to 561 million gallons in 1912. Several of the islands off the Arakan coasts are accessful oil fields are found in the Irrawaddy known to contain oil deposits but their value, valley. Yennangyaung is the oldest and most is uncertain. About 20,000 gallons were developed of these fields. Native wells have obtained from the castern Baronzo Fland been at work here for over 100 years, and in near Akyab, and about 37,030 gallons from 1886, prior to the annexation of Upper Burms, Hamri Island in the Kyankpyn district during the output is estimated to have averaged over 1911. Oil was struck at Minbu in 1910, the 2 million gallons a year. Drilling was begun production for that year being 18,320 gallons in 1887. The Yenangyat field yielded a very which increased to nearly i million gallons in

1012. The existence of oil in Assau has been on the west; oil springs have been known known for many years and an oil spring was for many years to exist in the Rawalpindi and struck near Makum in 1607. Nothing more other districts in the Punjab. In Baluchistan however, was done until 1883, and from that geological conditions are adverse, and though year up till 1902 progres was slow. Since some small oil springs have been discovered, that year the annual production has been attempts to develop them have not hitherto between 21 and 4 million gallons.

been successful.

Quantity and value of Petroleum produced in India during 1915 and 1916; --

	1915	•	1916.	
	Quantify.	Value,	Quantity.	Value.
Remit—	Gallons,	2	tiallons.	£
Akyab Kyankpyn Magwe (Venangyanng and	12,015 23,220 108,809,315	231 716 765,240	11,852 64,813 240,191,063	228 321 924,634
Singu). Myingyan (Singu). Pakokku (Yenangyat) Vinbu Thayetmyo	77,005,890 4,090,345 2,316,207 25,820	250,080 15,525 9,051 108	44,105,012 5,310,740 2,043,512 35,000	147,000 19,986 8,615 293
Dighoi (Lakhimpur)	4,550,150	15,009	5,236,800	17,274
Printaben Attock Miniwali	250,000 1,494	2,000	182,450 1,334	1,216 14
Tota	287,093,576	1,005,182	207,189,767	1,119,403

Imports of kerosene during 1915 were convalued of the output rose to £71,416. Copper siderably less than in the preceding year, the is found in Southern India, in Raijaniana, and total quantity imported falling from nearly \$4 is to not so the second in Raijaniana, and total quantity imported falling from nearly \$4 is the ore is smelled for the mental alone, no In 1916 the imports fell to nearly 68 million and the second in the indian to a situate the by-products, gallons, valued at £1,949,946. The decrease the interval is smelled for the mental alone, no Interval is made to utilize the by-products, gallons, valued at £1,949,946. The decrease the interval is made to utilize the by-products, gallons, valued at £1,949,946. The decrease the interval is smelled for the metal alone, no Interval is made to utilize the by-products, gallons, valued at £1,949,946. The decrease the product is smelled for the metal alone, no Interval is smelled for the metal alone, no the clay in the metal alone, no the clay in the metal alone, no the clay in the product is smelled for the metal alone, no the clay in the metal alone, in the various places along the latent in Raijuana, and in Raijuana

found in very small quantities in Burma, the output for 1916 being 54 cet, valued at £157. Graphite is found in small quantities in various places but little progress has been made in mining except in Travancore. India has for many years been the leading producer of mica, turning out more than half of the world's supply. In 1914, owing to the war, the output was only 33,180 cets, compared with 43,650 cets, in 1913. Owing to necessary restrictions with regard to the export of mica, the output fell off considerably in the vera 1915. the output fell off considerably in the year 1915, but subsequent demand in the United Kingdom for the best grade of ruby mica led to a considerable increase in production during 1916, the total output being nearly 2,000 tons valued at over £109,000. The amount exported in 1910 was 2,735 tons.

Tin, Copper, Silver and Lend.—The only persistent attempt to mine tin is in Burma. The output was for sometime insignificant but rose in 1913 to 110 tons valued at £40,000 ed to 1,362 ounce which fell to £38,000 in 1914. But in 1916 the preceding year,

Imports of kerosene during 1915 were con- value of the output rose to £71,416. Copper Company were directed to recovering lead and silver from the slags left by the old Chinese Amber, Graphite and Mica.—Amber is tically exhausted, and the mine has reached found in very small quantities in Burma, the out a stage of development at which ore were produced during 1916 as against 4,000 tons in the preceding year. On the other hand, the production of slag fell from 32,534 tons in 1916 to 4,771 tons in 1916. The total output of lead was 13,790 tons, valued at £428,005, and that of silver 750,012 ounces, valued at £38,552. Zinc has not yet been smelted at Bawdwin; before the war, the concentrates were experted to Belgium and Germany; exports practically ceased in 1914, but Japan took a certain quantit in 1916. the total exports during that year amounting to 3,224.6 tons, valued at £16,266. Silver is to 3,224.6 tons, valued at £16,266. Silver is obtained as a by-product in the smelting of the lead-zine ores of Bawdwin. The output from that source during 1916 was 759,012 ounces, being an increase of nearly 500,000 ounces over the output of the preceding year. There was also a considerable increase in the Anantapur output, which, however, only amounted to 1,362 ounces as against 512 ounces in the preceding year.

the diamond, ruby, sapphire, spinel, tournaline, garnet, rock-crystal, agate, cornelian, jadelte and amber. Amber has already been referred to; of the rest only the ruby, sapphire and indeite attain any considerable value in production and the export of the latter has declined owing to the disturbances in China, which is he chief purchaser of Burmese jadelte. The output of diamonds is comparatively unimportint. The ruby-mining industry of Burma has ately undergone a favourable change. In 1915

Wolfram.—A marked feature of the deveopment of the mineral industries of India durng recent years is the rapid rise of the wolfram ndustry in the districts of Mergui and Tavoy n Lower Burma. Although there was an output of 7 tons from Mergul in 1909, the Industry dates practically from the following year, 1910, The output of wolfram in Burma rose from 1,688 tons valued at £127,762 in to 2,326 tons £178,513 valued at 1914-16. According to an official note on the mineral production of Burms in 1916, the production of wolfram has increased from 2,546 tons in 1915 to 3,689 tone in 1916. The Tayoy District alone produced 3,031 tons, or more than 1,000 tons above the output from that district in the previous year. In conse-quence of the need for wolfram for the manufacture of high-speed steel, special measures were taken by Government to encourage the war.

Gem Stones.—The only precious and semi-joutput. Several of the larger firms in Rangoon precious stones at present mined in India are were induced to take up wolfram concessions: the shortage in the supply of labour at the mines was met by the importation of Chinese and Indian labourers through Government agency; the Deputy Commissioner, Tavoy, was relieved of his other duties in order that he might give special attention to wolfram mining; and the services of two Geological Officers. a Covernment Mining Engineer and on Officer of the Chinese Protectorate in the Tederated Malay States were lent to the Local Government to assist in the control of mining methods and of the labour employed on the mines. On many of the smaller intres and on some of the larger ones, the methods of working still leave much to be desired, but with the introduction of a greater number of firms of standing and with the more efficient control which is now being exercised, there has been a marked improvement both in output and in methods of mining employed.

According to the Director of the Geologica Survey, the total production of the world is about 8,000 tons per annum of concentrates carrying from 60 to 70 per cent, of tungstic trioxide. Of this Burma produces one quarter. In Blam the mining of wolfmm is a recent development. Wolfram is also produced in Australia and in the Malay Peninsula. Formerly, Germany used to take over 50 per cent, of the total exports from India, but this is one of the minerals of which the export was restricted owing to the

Quantity and Value of Tungsten-ore produced in India during 1915 and 1916.

•					1915.		1916.	
		•			Quantity.	Value.	Quantity.	Value.
					Tons.	£	Tons,	£
Bihar and Oriss Singlibliun				• •	••••		8	610
Burma— . Mergul Southern & Tavoy Thaton	dinn Stu	toa"	••	•••	232.3 330.7 2,032.0 40.4	20,554 24,802 235,827 , 0,580	528.0 428.1 2,680.8 72.7	53,566 20,277 360,428 10,115
Central Province Nagpur	··		••				1.3	220
Rajpulana— Marwar	••		••		****	••••	32.7	6,358
•		T	otn}		2,615.3	200,772	3,761.2	400,00

port of the Director of the Geological Survey pegmatite are mica, triplite, ilmenite, tourof India for 1913 includes a brief report by
intine, and uranium ochre; whitish columlit. C. Burton on an occurrence of pitchblende bite, zircon, and torbernite have also been
at mica mines near Singar, Gaya district,
recorded. Of these minerals triplite is stated at miles mines near Singar, Gaya district, recorded. Of these min Bengal. The pitchblende occurs as rounded to be the commonest. nodules in a pegmatite that is intrusive in-

Radio-active Minerals.—The General Remies schists. Other minerals occurring in the port of the Director of the Geological Survey pegmatite are mica, triplite, ilmenite, tour-

Industrial Arts

"The Arts of India," wrote Sir George side India. The more noteworthy crafts irdwood in the first lines of his book on the include carving as applied to architecture, ndustrial arts of India which has now become furniture, and cabinet work inlaying with other 3. industrial arts of India which has now become a classic, "are the illustration of the religious life of the Hindus, as that life was already orcanked in fall perfection under the code of Manu, B. C. 900-300." Whether that statement be accepted in its entirety or not, some knowledge of the religion of the Hindus is most essential to an understanding of their arts. That subject is dealt with elsewhere in this That subject is dealt with elsewhere in this book and so is the subject of caste, of which a knowledge is equally important in this connexion. But, by way of preface to a brief industries of the country, it may be well industries of the country, it may be well to state what is the basis of practically the whole industrial system of India. The child the wood used. Mahomedan and Sikh work—for example, is largely constructed on a geometric basis, though in the modern Sikh work—for example, is largely constructed on a geometric basis, though in the modern Sikh work teams his hereditary craft from his father or is apprenticed to a mistri, or master-craftsman, who is often a relative of the pupil. There is no regular fee, but a small present is often raid to the owner or foreman of the shop, and in some trades a religious ceremony may take place at the time of apprenticeship. The child begins his work at a very early age; at first he is expected to undertake the menial duties of the shop and is put to cleaning the tools; later he begins to perform the simplest operations of the trade. There is little definite instruction, but the boy gradually acquires skill by handling the tools and watching the workmen at their task. As soon as he has made a little progress, the apprentice is granted a small wage which is gradually increased as he becomes more useful; and when his training is finished, he either goes out into the world or secures a place on the permanent roll of his master's shop. To the poor artisan the arrangement has this great advantage, that at a very early age the child cams his livelihood and ceases to be a burden on his parents. In former days the system answered well enough for the rude village industries which satisfied the needs of the bulk of the population, and it also succeeded in maintaining a class of workmen who dealt in metals and textile fabries with such sense of form and colour that their work has challenged comparison with the most artistic products of the West. It has not, however, enabled the Indian artisans to keep abreast with modern industrial development. Imported articles have to a considerable extent supplanted the products of home industry, the quality of Indian work has in many cases deterlorated, and the workman has neither taken due advantage of the wide openings afforded to him by advancing civilisation and trade, nor adhered rigidly to old methods and traditions. The efforts made to assist him have not as yet been attended with a great measure of success, but the potentialities of the Schools of Art and Technical Institutions. are only beginning to be appreciated.

Wood-carving.

Indian wood-work, which must come first

woods or metals, veneering, and lattice-work The art and industrial schools of Calcutta, Madras, Bombay and Laboro have given much attention to developing there crafts on indigenous lines, with the result that degeneration has to a large extent been prevented and a superior class of carpenters, dispersed over the country. On a smaller scale, objects are as in the Hindu-grotesque animal forms of mythological subjects are freely introduced. The woods chiefly used for ornamental work are teak, shisham, deodar, sandal-wood, ebony, walnut, lun, nim, Madras red-wood (sometimes called black-wood), dudki (white-wood), red cedar, sal, babul, and others of less Importance Deep under-cutting and sculpture are possible with teak, red-wood, and walnut; whereas shisham and deolar can be used only for low relief work. In recent years a great demand for cheap and inferior carving-on tables and other articles alien to the Indian mind—base aprung up in Europe and America and has been met by the export of vast quantities of poor work, for which the soft woods only are used while bone takes the place of ivery in inlaying. "In these abominations." Sir George Watt in the catalogue of the 1903 Exhibition at Delhi, "it is thought sufficient proof of an Indian character to introduce some portion of a mosque or temple, and that being done all attention to such details as sultability of design or nature of ornamenta-tion can be disregarded."

Metal Work.

The purely indigenous or village metal manufactures are perhaps, after those connected with wood, the most important of all the art industries of India. Most of the household utensils are made of metal, which thus to a large extent take the place of the porcelala and glass of Europe. Brass is most frequently employed by Hindus and copper by Mahom-medans, the copper vessels being generally tinned for safety. Every large village has its copper and ironsmithe and also its jeweller, an l in some instances these local industries attain considerable magnitude, as is the case with the manufacture of copper and brass vessels at Srinagar, Benares and other towns. The making of ornamental bowls, vases, trays, and other European articles constitutes an important industry in many places, and a variety of processes is of course employed such as enamelling, damascening, and colouring either with lac of paint. The provinces of India have each two or in importance in the art products of the country, three centres noted for their copper or brassware, shows great diversity, and many points of and there are as many different art conceptioners; and the wood-carvers of the country, thous as centres. Some of the tyles are well bave gained a well-deserved reputation out- known all over the world, such as the Benares

iversally used in house-construction. The stones and silk; make a great number of classification in darma mats must, therefore, be very cations of this work possible. A rough division between the two forms is that the massive kind is called zardozi and the light and graceful kandani.

Stores are formed by selected canes being placed.

These are formed by selected canes being placed.

The carving and inlaying of ivery are still thandle for each other and bound in resilient thanks.

as pulkhari, but most of the varieties still await their historian. Darm stitch is chiefly used on coarse cotton and chain stitch on silk or woollen fabrics, the former covering the teatile the latter ornamenting parts of it. European demands have led to the production of large quantities of silk embroidery, in which coloured silks and gold and silver wire are equal to the production of the carving of horns and shells may possibly be counted as variations of this art. employed, for curtains, table cloths and so on. Another common form of embroidery is what is called chikan work on some white washing material such as calleo or muslin: in this the most usual form of stitch is the satin stitch combined with a form of button holing. The manufacture of lace and knitting have been introduced into India by missionaries. "Laid" embroidery with gold sionaries. "Laid" embroidery with gold mythological subjects, is little practised. Variand silver wire (called karchob work because rious brass workers are expert in reproducing it is done on a frame) is common throughout in miniature scenes of Indian life and animals the country in different forms. The wires of the country, and at Lucknow some realistic are drawn in a number of centres, particularly terms cotta statuettes are produced. Wherin Labore, Delhi, Agra, and Benares: the ever wood-carving is practized, and particularly details of wire drawing and the form of stitch, in Burma, statuary in that material is turned together, with the combination with precious out and is used chiefly for decorative purposes.

These are formed by selected caues being placed parallel to each other and bound in position by cross-ties. They are exceptionally strong, and especially valued in public offices where there is much traffic.

Embroidery.

Embroidery.

Embroidery.

This is one of the most important of the art industries of India attaining its highest development in Northern India. The stitches employed in the various kinds of work are numerous, but all have this in common that they are formed by the needlebeing pulled away from and not drawn towards the worker. Mrs. F. A. Steel has written a description of the Punjab darn stitch, known as pulkhari, but most of the varieties still await their historian. Darn stitch is chiefly used their historian. Darn stitch is chiefly used the property of the case of the case is no special caste identified with the cast like that of the sliver smiths, and this is held to show that the industry as it now exists is of comparatively modern origin. Its development in recent times is due to the defined of slighteers in India to have "something in an early in the properties. They are still await their historian. Darn stitch is cheefly used their historian.

Statuary.

Part of that division of handicrafts which is vaguely connoted under the term "fine arts" is the subject of an article elsewhere in this book. Apart from painting, it is not a very considerable division. except the wide-spread prod except the wide-spread production of statuettes (in stone, wood, or cast metal) of mythological subjects, is little practised. Ya-

Fisheries.

bers of the coastal population are through natural circumstances engaged in fishing, but in a great proportion of cases this means of livelihood shares their time with agriculture. The Bengal Government took the step, a foir years ago, in connection . sea fishing, of introducing a steam tra undertaking served the purpose of investigation [but we have yet to see commercial develop-Special measures ment on a largo scale, linve also been taken by the Madras Government with more or less success, there being in this province a Fishery Department of Government under an Honorary Director. The inland fisheries where there are large rivers or tanks

In the modern sense of the term. Vast num-

population and that not less than 80 per cent.

of the entire people consume lish as a regular article of diet. As a result, 1.6 per cent. of the first to turn his attention to so article of diet. As a result, 1.6 per cent. of the study of the fisheries of the Bengal 1 the population is engaged in catching, curing, was Russell, who came out to India (V. and selling fish, a percentage which rises to patam) in 1781 and acted as Botanist is 2.6 in the Presidency, Rajshahl and Daces (Carnatic to the East India Compan. Divisions; moreover, large numbers of cuities, succession of investigators have contrators are returned as fishermen also. The his work and their reports showed that waters of the Bay, the rivers, and swamps fisheries offered great scope for profitable detail contain fish, and every ditch and puddle ment. In particular may be mentioned farnishes small fry to eke out the frugal diet great additions to the knowledge of the of the bekti, tapsi, or mango-fish, mullet, porn. Alecek, 13.18. Gregon Naturalist to the I fret, and sole. Inland the hilsa (Ciapea Isha) Marine Eurvey and, later, Superinter is found in shools in the Ganges—it migrates of the Iedian Museum in Calcutta, up the rivers, from the sea, to spayin, exactly extensive inquires, he wrote that "the population and that not less than 80 per cent. in rivers, from the Banges—it migrates of the Irdian Museum in Calcutta, up the rivers, from the sea, to spawe, exactly extensive inquiries, he wrote that "the like English Salmon; while the rolu (Labeo, fisheries of the Bay of Bengal are of a rolita) and the katal (Catla buchanani) abound well night incalculable. That they are unknever where, as do also innumerable other well night incalculable. That they are unknever where such esteemed by the Bengalis; true; but it is equally true that they will prawns and crabs are caught in myriads. The a mine of wealth to whoever may have malaseer is found in the higher reaches of the categories to exploit them, and the ten rivers which deliver is found in the ligher reaches of the categories to exploit them, and the ten rivers which deliver is found in the ligher reaches of the categories to exploit them, and the ten rivers which deliver is found in the ligher reaches of the categories of the Bay of Bengalis and the categories of the Bay of rivers which debouch from the Himalayas, and (according to some reports) in some of the rivers of the Chota Nagpur plateau.

the Bay of Bengal, drying their catches ashore on stakes driven into some sandy beach, The larger rivers are usually fished by means of enormous nets. The tanks and ditches are peof correcting and verifying all my caffler riodically dragged, the fish at other times being angled or caught in a cast-net. Every stream let is studded with hundreds of wicker fish, traps, while mawn cages are ubiquitous. The wooder is that any living fish escapes, so persistent and remorscless is the luint for the finny tribe. Every other interest is subordinated to the weight of mean of inestimable value, and that whe first with the first propose and length of mean tempts of purpose and length of means. to its pursuit, and not only is navigation impeded, but the drainage of the country is blocked by the obstruction of every channel and outlet.

Government probably do not own more than 10 per cent, of the entire fishery rights, which have generally been alienated to private persons, having been included in the "assets" on which

The fisheries in Indian waters are unorganised | the permanent settlement of estates was but in some cases the fishery itself is a some eases the fishery itself is a some eases the right of fishing the many h in the owner or occupant who may b public body on a private individual. In t and in some portions of the Sunderbans

614,000 persons in Bengal or double the number sut by pasture. Nor is this to be wonder considering the nature of the country a resources, even though imperfectly dev of its rivers, its estuaries and the sea In addition, moreover, to those active gaged in fishing, there are 324,000 main by the sale of fish, so that the total n supported by catching and selling fish it. are often important in many parts of India.

Bengal & Bihar & Orissa.

The importance of the Bengal and Bihar and Orissa Ifsheries—which are considered together, as they belong to the same geographical rice and fish are the principal foodstuffs of the rice and fish are the principal foodstuffs of the length of the same geographical rice and fish are the principal foodstuffs of the length of the same geographical rice and fish are the principal foodstuffs of the length of the same geographical rice and fish are the principal foodstuffs of the length of the same geographical rice and fish are the principal foodstuffs of the length of the same geographical occupation is fishing also cultivates liand in Bengal, and one in six in Biha Orissa.

true; but it is equally true that they will I a mine of wealth to whoever may have enterprise to exploit them, and the ten of purpose to work them in the face of the ar and incredulity that at present exists regar them . I may state that, as Nat list to the Indian Marine Survey, I have The Bengali is a clover fisherman and the list to the indian marine out ty, and I think thoroughly, explored Uriyas and others fish along the foreshore of Bay of Bengal from False Point in the Maha Delta, to Devi Point on the Kistna De and as these explorations have extended four years, I have had ample opports of correcting and verifying all my earlier clusions." After minutely describing the are of inestimable value, and that whe has enterprise enough to take them up strength of purpose and length of mean stick to them, will reap a manifold rei The only special question for consider is that of carriage from sea to market."

In 1906, the Government of Bengal pl Mr. K. G. Gupta, c.s.l., 1.0.s. (now Sir F Gupta), a Senior Member of their Boar Revenue, on special duty in order to in-

of the Lancashire Sea Fisheries, who was specipossibilities of the Sunderbans.

The results obtained by Dr. Jenkins were of great importance. He showed that trawling could be carried on successfully throughout the year, and concluded that a properly organised scheme for developing the fisheries would yield a profitable return on capital invested. He indicated the lines on which these fisheries could be exploited.

While the sea fisheries of Bengal were thus investigated great industry was shown in the collection of information, in experimental work and in the initiation of breeding operations on scientific lines, in regard to the fresh water fisheries, in both rivers and tanks. The frequent overflowing of the great rivers in the rains and the necessity for studying the habits of the river fish added greatly to the work under this heading. The erection of weirs and the various irrigation schemes initiated in both provinces have also often wrought havoc with the fishery outlook,

The Fishery Department, after following up Dr. Jenkins' investigations, regard the Sunderbans fisheries as capable of furnishing yearly not far short of 200,000 maunds of fresh fish. while they point out that the area covered by the potential marine fisheries having been shown to be roughly 39,000 square miles, the supply from such a vast area must be well nigh inexhaustible. "From statistics which have been carefully compiled it has further been ascertained that the annual imports of fish to Calcutta from all sources roughly represent 30 per cent. of the actual requirements.*1

The future development of the fisheries on commercial lines will not only require some outlay of capital, but will also necessitate some advance in the general conditions and mental lot of the fishermen, because the low referm in which the occupation of fishing and the dealing in fish is held has led to the whole industry being left in the hands of people with no capital, no education, no initiative and no business capacity. The most hopeful sign is officially stated to be the prospect of the spread of co-operative credit societies amongst fishermen in the near future. The situation is obviously one in which there is ample scope for a development of this kind. Meanwhile the Fisheries Department are carrying on persistent, careful and extensive pro-paganda work. As regards actual fishing, the Department are dividing their concentration on two points-(1) the possibility of increasing the actual number of fish present, and (2) the possibility of capturing a larger proportion of existing fish without exhausting the natural endblik.

the same subject. He made a compreive and valuable report from which followed
important results—(1) His recommental that a survey should be made of the
been found necessary in every other civilized Lary possibilities in the Bay of Bengal was country, in order to protect both fish and the immediately acted upon by Government and community against the rapacity of man, it typical steam trawler was set to work in the Bay under the direction of Dr. Travis Jenkins, then will be found necessary in Bengal. "At present we know so little regarding the habits of the Lancasure sea risheries, who was specipresent we know so httle regarding the halfs
ally engaged for the work; and (2) a Bengal of the commoner marketable fish, that we
Fishery Department was established. Dr. have not sufficient data on which to formulate

Jenkins also specially investigated the fishery any oxtensive Fishery Laws. The results of the scientific enquiries enable us first to determine whether legislation is necessary or not, and then to define the nature and object of any laws desired."

The Fishery Department was during last year separated from that of Agriculture and a separate Director of Fisheries has been appointed.

Burma.

The fisheries of Burma are important financially and otherwise. From time immemorial the exclusive right of fishing in certain classes of Inland waters has belonged to the Government, and this right has been perpetuated in various fishery enactments, the latest of which is the Burma Fisheries Act of 1905. Fishing is also carried on along the coast, but the sea fisheries absorb but a small portion of industry. Most of the fishermen labour in the streams and pools, which abound particularly in the delta Districts. The right to work these fisheries, mentioned in the enactments alluded to above, is usually sold at auction, and productive inland waters of this kind often fetch considerable sums. River fishing largely carried on by means of nets, and generally yields revenue in the shape of Heence fees for each net or other fishing implement used. Here and there along the coast are turtle banks which yield a profit to Government. In the extreme south the waters of the Mergui Archipelago afford a rich harvest of fish and prawns, mother-of-pearl shells and their substitutes, green snails and trochas, fish-maws, and shark-fins, beche-de-mer. Pearling with diving apparatus was introduced by Australians with Filipino and Japanese divers in 1893. They worked mainly for the shell, it being impossible for them to keep an effective check on the divers as regards the pearls. After about five years, when the yield of shell had decreased, they all left. The industry was then carried on by the Burmese.

Bombay.

The Bombay sea fisheries are important and give employment to numerous ensies, chief of which are the Kolls. Pomfret, sole, stone, and lady-fish are sold fresh, while others, such as the bombil, are salted and dried. Large quantities of small fry are sold as manure. The palls, found in the Indus, and the maral and mahseer are the principal fresh-water fish.

Sea-fishing is carried on by the Muhana tribe of Musalmans, who reside for the most part in hamlets near Rarachi. The principal fish caught on the coast are sharks, rays, and skates. The pearl oyster is found at several

places, and the Mirs conducted pearl operations on their own account. Under British rule, the right has been let for a small sum, but the pearls are very interior in size and quality, so that the industry has greatly declined during the last thirty years. At present practically no pearl fishing is carried on. Con-siderable fisheries also exist in the river Indus, chiefly for the fish known as palla, which are annually leased out by Government for about Rt. 20,000.

But for a province with such a length of sea board and with the estuary of the Indus within its borders the fishing population is singularly small. The fishing boats and appliances The fishing and appliances generally are very small and the fishermen do not go out in rough weather. The best fishing graton is the cold-weather months of December. January and February, and it is probable that with such a very brief season the harvest of the sea is not sufficient to support a larger population. The fishing castes frequently desert their caste occupation for others, according to the 1911 census report. When the twogroups, fishermen and fish dealers, are amalgamated there is a decrease of 9,000 in the approgate, which can only be explained by their describe their appearral occupation.

The Government of Baroda, a State lying similar work, and he is receiving practical

instruction.

Madras.

and the salting of the catches is a very con-siderable industry. The development of the fisheries of the Presidency is now under inby Government. vestigation Pish-curing is carried on in special yards under Government supervision, and is an important industry.

Particulars obtained from the Madras Fishery Department show that the principal operations in hand during last year were as follows :-

- (1) Tanur fish curing yard including curing, smoking, pickling (Salt and Vinegar), fish oil and guano, &c.;
- (2) Cannery (2) Cannery at Chaliyam (Beypore) with experiments in solar heating;
 - (3) Soap making at Callent and Tanur:
 - (4) Sunkesula and Ippur fish farms:
 - (5) Larvicidal work;
 - (6) Stocking of tanks:
 - (7) Re-introduction of gouranni;
 - (8) Nilgiri trout operations:
 - (0) Conservancy of various waters:
- (10) Detailed examination of the waters of Coorg and South Kanara and of a variety of large tanks in the districts for conservancy purposes;
 - (11) Tuticorin marine fish farm :
 - (12) Edible oyster farm at Pulicat:

- (13) Pearl oyster culture farm at Krusadal:
- (14) Preparation of specimen for distribution and for educational work:
 - (15) Beche-de-mer cultivation:
 - (10) Research work;
- (17) Chank work;
- (18) Socio-economic work:
- (19) Experimental deep sea fishing with Ratnagiri boats; and
- (20) Miscellancous, including tuition, bulletin writing, &c.

The West Coast Experimental Stations, riz., the Tanur yard and Beypore Cannery, were the Tanur yard and Beypore Cannery, were run directly by Sir F. A. Nicholson, Hou. Director of Fisheries, with the co-operation of the Assistant Director, Mr. V. Govindan. The year was better than the preceding one, but you want featurable. Only should not be a series of the contract of the c but not very favourable. Only small and lean sardines and unusually small mackerel were obtainable and large fish were scarce. The oil and guano manufactured at the yard continued to be of first class quality, though small in quantity, and there is now little difference between the skimmed and pressed oil. The guano on one occasion gave above 0.1 of nitrogen. The experiments in mackerel, pickled within the borders of the Bombay Presidency either plain with salt or with condiments, were being desirous of introducing syster culture developed and are successful as products. The into the coast districts of their State, have Cannery also did better than in the previous delegated a student to Pulicat, where the year and over half a lakh of this of various Madras Tisheries Department are engaged in sizes were packed. The Henderson method of freezing fish was successfully operated. The two Ratnagiri boats bought in the previous Year brought in considerable quantities of fish.

The inland fresh water fisheries were as usual The Madras irrigation tanks usually con-tain coarse fish, the right of netting which is disposed of annually. The sea-fisheries operations were the Sunkesula fish farms with sca-fisheries operations were the Sunkesula fish farms with along the coast employ thousands of persons, an addition known as the Pudur Scheme sanctioned during the year, the hilsa hatchery on the Coleroon, the stocking of an increased number of tanks, the starting of the Ippur Fish Farm (Nellore Dist.) mainly for larvicides and for the breeding of gourami and other valuable fish, the acclimatisation of tench, the breeding of fish, chief Etropius and larvicides, in a series of ponds at the old Powder Factory, Madras, where gourami are also placed, the putting in hand of the Kallamalais Scheme for the growth of larvicides in view to combat local majaria and other antimalarial work, and the continuance of trout operations on the Milgiris. A considerable area was brought under the restrictive operation of Section 6 of the Fisheries Act (IV of 1897). Mr. Wilson and his staff did a great deal of inspection and work not easily recorded. Mr. Wilson also visited Java and successfully brought back a consignment of gourami which are of great value.

The Pearl and Chank Fisheries and Marine Biological work were as usual under the immediate supervision of Mr. James Hornell, E.L.S. The chank work was carried on as in the previous year but with a larger net profit than has ever yet been attained from chanks. Nothing was received from pearls during the year, for not a pearl syster was over in sight. The lagoon fish farm at Tutlcorin, the biological specimens sold to various colleges, the revived beche-de-mer industry all yielded substantial

profit, but the Pullcat Oyster Farm showed a small loss, because it is an experiment intended primarily to obtain piscleultural data and only secondarily to market the products. The plans and estimates for the projected Krusadai pearl oyster farm off Pamban were laid before Government, whose orders are awaited. Though costly (Rs. 50,500) at start, it should prove a most lucrative investment.

The socio-economic work was undertaken mainty by the Assistant Director, Mr. V. Go-vindan, B.A., F.Z.g. The formation of Co-operative Societies took up a good deal of the Assistant Director's time and energy, this work being of extraordinary difficulty among fisherfolk. Two societies were in existence at the beginning of the year on the West Coast and four more were started during the year, with preparation for several others, of which four have since been formed. The school attached to the Tenar yard had 30 boys on its rolls and carned a grant of Re, 116 from Government. It is run by the yard staff, who also teach earpentry and smith work. The question of the extension of elementary education among the fisherfolk is now under consideration.

Soap operations were, as before, under Mr. A. K. Menon, B.A., F.O.S. During the year 12 tons of fish oil soaps and 32 tons of "Wash, well" and 12 tons of "Vegetol" soaps, besides torily. a small quantity of milled toilet soap, were made. More was not possible, as the Manager. Mr. Menon, was occupied in obtaining and fitting up the plant (of which the toilet soap plant was only received in October) experimenting, buying raw material, training the staff, getting business together, &c. The Vegetol soap has obtained a great vogue and is sold as fast as it can be made, owing to its composition, lathering qualities, &c. The milled toffesoap is also growing in favour. Coal tar soap is much in demand owing to it a parity, cheapness and disinfectant qualities. Considerable sales, with constant repeat orders, are being received, especially from the military authorities, Red Cross Associations and others. As the glycerine recovery plant ordered from England has not arrived, glycerine could not be recovered except to a small extent by makeshift arrangements, which, however, are under development.

The Indian Industrial Commission visited Callcut during the year and inspected the Cannery and Soap Works. An important proposal was made to Government by the department to take over all the Government fish-curing revenues to that state in the near future. -yards from the Salt Department and work them more or less after Tanur methods and the matter is still under the consideration of Gov ernment.

The Punlab.

A Panjab Fisheries Department came into being as an experimental measure in 1912, and received the official sanction of Government. as a regular Department of the Punjab in April 1916. It operates under a Warden of Fisheries, Punjab, under control of the Financial Commissioner.

The first three years, under the Director of l'Isheries, Punjab, the Department was almost entirely concerned with preliminary work, consisting largely of investigations and experiments in the Beas and Rayl Rivers, These Rivers were exploited with a view to ascertaining the indigenous species which inhabited them, their habits, spayning grounds and other data which would enable Government to framo regulations for their protection. The various fishing communities were interviewed and their views and statements carefully considered as to their rights in Government waters. From the mass of evidence collated the Director drafted rules for the Kangm Di-trict, which while conserving the fish supply and beings source of revenue to Government would be acceptable to the people of the District.

The rules came into force in July 1916 and appear to be working smoothly and satisfac-

Regulations on the same lines but based on local conditions have since been drafted for the following districts, and submitted to Covernment for approval.—Hoshiapur, Gurdaspur, Juliundar, Ludhiana and Amritsar. His Highness the Maharaja of Kapurthala having Interested himself in matters pissicultural, in his state, rules were drafted to bring the Kapurthala State into line with the adjoining districts and submitted to the Durbar.

This will bring the whole of the Beas up to its confluence with the Sutlej River, and a por-tion of the latter under the Fisheries Regulations and should go far to preserve the existing head of fish in these rivers.

Trout operations in Kulu continue to flourish and now that the head of fish in the upper reaches of the Beas River are well established, endeavours will be made to extend front culture 30,000,000 into other Himalayan streams. were planted in the Mandl State and practically all hatched out and there is no reason why they should not be the nucleus of fine sport and good

Several angling licenses were issued and good sport obtained in the Kulu Valley-The largest trout captured being lbs. 4

The Opium Trade.

Two descriptions of oplum must be distinguished. Bengal oplum which is manufactured from poppy grown in the United Provinces; and Makea oplum which is almost entirely produced in certain Native States in Central India and Rajputana.

Bengal Opium.—Cultivation of poppy is only permitted under license. The cultivator to whom advances are made by Government free of interest is required to sell the whole of his production to the Opium Factory at Ghazlpur at a rate fixed by Government, now its, 7/8 per seer of 70° consistency. The area licensed for cultivation has in recent years been much reduced as a consequence of the agreement between the Government of India and the Chinese Government, and is now restricted to the United Provinces. The following are the figures of the area under cultivation and of production:—

_	Average under cultivation.	Maunds of produced.	Number of chests made
1911-12	200,672	31,473	23,126
1910-11	362,868	44,926	23,611
1900-10	354,577	67,666	36,172
1908- 0	361,832	61,803	33,895
1907- 8	488,548	71,340	51,230

At the Factory two classes of oplum are manufactured:

(1) "Provision" oplum intended for export to foreign countries. This oplum is made up in balls or cakes, each weighing 3°5 lbs., 70 cakes weighing 140; lbs. being packed in a chest.

(2) "Excise" oplum intended for consumption in British India. This is made up in cubic packets, each weighing one seer, 60 packets bring packet in one chest. It is of higher consistency than "provision" oplum.

"Provision" oplum is sold by public auction in Calcutta, the quantity to be sold being fixed by Government. This quantity has been reduced in recent years in accordance with the agreement with China, the figures being 15,440 cheets in 1912. Exports to China have been stopped altogether since 1913.

Statistics of Trade.

The difference between the cost of manufacture and the price realised at these sales may be regarded as the duty levied by Government:—

_	Number of chests sold.	Average price realised at auction sales per chest.	Average cost of manufacture per chest.
1911-12 1910-11 1909-10 1908 9 1907 8	37,560 42,300 45,900	2,790 2,890 1,012 1,343 1,350	625 515 525 525 503

Malwa Opium.—The poppy from which Malwa opium is manufactured is grown chiefly in the Native States of Indoce, Gwallor, Bhonal, Jaora, Dhar, Rutlam, Mewar and Kotah. The British Government has no concern with the cultivation of the poppy, or the manufacture of the opium: but it used to regulate, before exports to China were stopped, under the system explained below, the import of Malwa opium into, and the transport through, its territories. As the chief narket for Malwa opium was China, and as the States in which the drug is produced had no access to the sea, except through British territory, the British Government were able to impose a duty on the importation of the drug on its way to Bombay for exportation by sea.

now The are available. The poppy is sown in November, the plants flower in February, and by the end of March the whole of the opium has been collected by the cultivators who sell the raw oplum to the village bankers. It is then bought up by the large dealers who make it up into balls of about twelve ounces and store it until it is ready for export, usually in September or October. The opium is of 90° to 95° consistency and is packed in half chests: considerable dryage took place in the case of new opium while transported to Bombay.

To enable Malwa opium to reach Bombay a pass from the Opium Agent, or his Deputies, was required. This pass was not granted until the duty imposed by the Government of India had been paid. This duty was until 1012 at the rate of Rs. 600 per chest: but was raised to Rs. 1,200 in that year consequent on the introduction of a system similar to that applicable to Bengal opium. Under this system the Collector of Customs, Bombay, sold the right of exporting opium to the highest bidder at monthly auction sales. On payment of the price bld and of duty at the chianced rate the bidder was given a certificate authorising him to import opium from Malwa. The number of chests fixed for export in the year 1013 was 14,800. But out of these only 2,755 were exported during the year owing to the large accumulation of stocks in China markets. Sales of Malwa opium for export fo that county have ceased since January 1013 and the trade has become extinct since 17th December of that year when the last shipment was made.

Practically the whole of the Malwa opium exported from Bombay went to China. There is no market for it in the Straits Settlements. A few chests annually are shipped to Zanzibar.

Revenue—The revenue derived by the Government of India from oplum in recent years is as follows:—

1011-12		• •	4.	• •	5,061,278
1012-13	• •	• •			5,121,592
1913-11			• •		1,624,878
1014-15	• •	• •			012,703
1015-10	**				7,013,511
1910-17			stimate)		3,153,100
1917-18	(Buc	iget ty	timate)		J,589,300

Figures not available.

action was placed on exports to Chinese points, countries in order of importance were Japon. The reduction of exports led to an increase in Hongkong, the Straits Settlements. Formoss, the price of the drug in China and a correspond; Mauritius, Ceylon, and Macao. The exports light in the price obtained in India at the on Government account which are not included artificateles. For one considerable time, how: in the above figures were 3.235 chests from ever, in 1912 the trade in China was paralystyles. Bombay, and 4,115 chests from Bragal. These call by the imposition by Provincial Governors exports were to the United Kingdom, Hongkon in defance of instructions from the Contral and the Straits Settlements. they much of restrictions on the importation;

Agreement with China.—The fluctuations and sale of Indian optum. Stocks accumulated in the number defined from optum are directly rapidly at Shanghai and Hongkong and the attributable to the trade conditions arising position in December 1912 had becomeso antice of the limitation of optum exports, that a strong and informital demand was made of the choice of the gradieness of the Government of India to relieve the fiture of the choice of the Chinase Government to the by the suspension of sales. Sales were acceptable to the foreign in contingly postponed both of Bengal and Malwa China, the Government of India agreed to optum and in order to afford the Malwa trade conjugate the gradially restricting the amount the most complete relief, the Government of of optime expected from India to China. In India undertook to purchase for its own use 1915 an arrangement was concluded by which 11.253 chests of Malwa optum which relieve to the reduced annually by 3,100 chests from position is that the export trade to China has an arrangement, standed in May 1911, the private account amounted in 1916. The present contains of the trade was to be accelerated on chests or 12,700 cwts., thelowest exports in the relieve being shown of the suppression of the corded. Indo-China (including Cochin-China) nation production of optum in China, and in (took 3,440 chests, Java 1,465 chests, and Slam, arrangement was placed on exports to Chinase ports. countries in order of importance were Japan. The reduction of exports to Chinase ports.

rledge on the part of promoters. But there also certain real and special difficulties h glass manufacturers in India have to end against.

end against the principal present difficulties are:—
) The difficulty of obtaining skilled labour lass blowing. This difficulty should be lass blowing. come in course of time, as there are now a ere good sand and quartz can be obtained, lis to compete with the imported article.

(2) inexperience and lack of technical and consequently, in most cases at a great distance from the coal fields. (3) Competition from Japan.

The Alkali used is almost entirely of English manufacture, being Carbonate of Soda 98-99%, in a powdered form. This Alkali has almost completely taken the place of the various Alkaline Earths formerly employed by the experienced Indian Blowers. (2) The heavy Glass Bangle manufacturers, as the latter can-of fuel, the works usually being situated not be used in the manufacture of glass which

WILD BIRDS' PLUMAGE.

he Bill for prohibiting the importation into pland of wild birds' plumage, which was oduced into Parliament in 1013, was the asion of a fierce controversy on the nature the plumage traffic. But organised opposi-a to the Bill falled to convince the public that plumage trade was not one of great cruelty. ong well-authenticated cases from India it prove its cruelty was one from Karachl, in 13, in which two men were fined for sewing the eyes of birds so that they should not ht in their cages. It was stated that this s a common practice of fighermen in Sind, to breed birds and export their feathers to igland. This according to The Times, is t only another apparent example of the way which the prohibition on the export of plumage om India is notoriestly evaded by smugling to the open market of England, but shows w easily abuses might arise under any system hich gave a general sanction to feather-farming. il legitimate methods of breeding birds for ielr plumage can be safeguarded as definite coeptions under an Act prohibiting importaon; and only the exclusion by law of all lumage not so specified can put England breast of the United States and of her own aughter Dominions in the suppression of a arbarous industry.

Plumage birds.—The birds most killed in account of their plumage in India are paddy birds, kinglahers, bustards, junglefowl, egrets, beasants, paroquets, penfowl, and heopoes. Perhaps the most extensively killed in the past has been the Blue Jay (Coracias Indica). The smaller Egret is met with throughout India and Northern Burma. It is a pure white slim heron which develops during the breeding season a dorsal train of feathers, which elongates and becomes "decomposed" as it is expressed, that is to say, the barbs are separate and distinct from each other, thus forming the ornamental plume or algrette for which these birds are much sought after and which these birds are much sought after and which these mass and the state of the exports were valued at over six laking in one year, but since 1805 the export trade has steadily diminished. But, though legitimate exports have been stopped, the trade is so lucrative as to lead to many attempts at smuggling. Within a recent period of 12 months the Bombay Prea recent period of 12 months the Hombay Pre-ventive Department, for example, seized egret-plames worth Rs. 2,19,047 in India and £14,000 in London. The rupce value represents the sum which the exporters paid to those who took the feathers from the birds, so the loss to the trade was considerable. In addition, penalties varying from Rs. 5,000 to Rs. 10,000

each and amounting altogether to Rs. 59,175 were inflicted on the ten merchants concerned in attempting to export the feathers. A case was reported from Rangoon in 1910 of a man being found in possession of 22 lbs. of egret feathers valued at Rs. 66,000.

Legislation.—Indian legislation on the subject will be studied with interest by those who have followed the course of legislation on this subject in other countries. Until 1887 no legislation was considered necessary in India. An Act of that year enabled local governments and municipal and cantonment authorities to make rules prohibiting under penalties the sale or possession of wild birds recently killed or taken during their breeding seasons, and the importation into any municipal or cantonment area of the plumage of any wild birds during those seasons; and local governments were empowered to apply these provisions to animals other than birds.

Afterwards, in 1902, action was taken under the Sea Customs Act to prohibit the exportation of the skins and feathers of birds, except feathers of ostriches and skins and feathers exported bona fide as specimens illustrative of natural history. Act VIII of 1912 goes much further than the previous law. It schedules a list of wild birds and animals to which the Act is to apply in the first instance, enables local governments to extend this list, empowers local governments to establish "close times," presumably during the breeding seasons, in the whole of their territories or in specified areas, for wild birds and animals to which the Act applies, and imposes penalties for the capture, sale, and purchase of birds and animals in contravention of the "close time" regulations, and for the sale, purchase and possession of plumage taken from birds during the close time. There is power to grant exemptions in the interests of scientific research, and there are savings for the capture or killing by any person of a wild animal in defence of himself or of any other person, and for the capture or killing of any wild bird or animal in bona fide defence of property.

One defect in the law may be noticed. When an exporter is discovered, the Customs Department can on a magistrate's warrant have his house searched and selze the feathers found there to produce as evidence that he is engaged in the trade. But they have to return the feathers and can only take possession of them if they are discovered presently in course export.

BREWERIES.

Statistics compiled from official returns show | with that of the previous year, that there were, in 1012, 22 breweries in British India, of which one did not work during the year. Fifteen of these are private property and seven are owned by six joint-stock companies with a nominal capital of Rs. 20,71,000, of which Rs. 22,20,20 was paid up at the end of 1012-13. Eight of the breweries are located gallons, an increase of 62 per cent. as compared available.

A substantial quantity of beer produced locally is consumed by the British troops in India. In 1007 the Army Commissariat purchased some 38 per cent, of the to 121 production which Rs. 22,20,260 was paid up at the end of and the average purchases in We fee years 1012-13. Eight of the breweries are located at stations in the Himalayas from Murree to pariceling. The largest brewery is the one at Murree, the Bangalore, Solon, Hawalpindi, of malt liquor to British troops have been Kasauli, Poona, and Mandalay, breweries discontinued, each British regiment being left standing next in the order shown. Production free to make its own arrangements to obtain the presence supply are approximately as a largest in 1902, since when it has tended to was largest in 1902, since when it has tended to the necessary supply; as a result, the figures decline. In 1916-17 the production was 4,103,000 of Army consumption are no longer readily

GRAIN ELEVATORS.

The question of adopting elevators for the handling of Indian grain has engaged attention for some time and has assumed increased importance in the light of the railway congestion experienced in recent years and more particularly in the grain season. In the last three rears great strides have been made by other countries in the adoption or perfecting of the elevator system, and a large mass of contem-porary data on the subject has been brought together by the Commercial Intelligence De-partment. Since the subject is one that can-not receive adequate consideration in India till the facts are before the public, these have been embodied in a pamphlet entitled Indian Wheat and Grain Elevators, by the late Mr. F. Nocl-Paton, Director General of Commercial Intelligence to the Government of India. The work gives full particulars regarding India's production of wheat, and shows that less than one-eighth of the crop is exported. It describes the conditions under which the grain . is held and the risks that it runs. It is pointed

out that the cultivator has no adequate means of preserving his wheat and that he is constrained to sell at harvest time; also that the prices then obtained by him are considerably lower than those usually current in later months. The constant nature of the European demand is explained and an attempt is made to gauge the probability that the enormously increased quantities of wheat to be expected when new irrigation tracts come into bearing would be accepted by Europe at one time and at a good price, or could be economically transported under a system in which a few months of congestion afternated with a longer period of stag-nation. Figures are given which suggest that in practice the effect of equipping railways to do this is to intensify the evil and so to ongage in a victous circle. The author explains the structural nature of elevators and their functions as constituted in other countries. Particulars are given as to the laws that govern their operations in such countries.

TRADE MARKS.

The Indian Merchandise Marks Act (IV of 1880) was passed in 1889, but its operation in the earlier years was restricted, especially in Calcutta, in consequence of the lack of adequate Customs machinery for the examination of goods. In 1894, with the introduction of the or me examination of goods for assessment to duty, and this increase enabled examination to be made at the same time for the purposes cation, and there have been only 103 such cases during the stated twenty years. Usually, of the Merchandisc Marks Act. The Act was detained goods are released with a fine, and sale of goods bearing false trade marks or false trade descriptions (as of origin, quality veights). trade descriptions (as of origin, quality, weight, or quantity). While the Act was before the Legislature a provision was added to require

tions under the Act during the twenty years ending 1912-13 has been :--

Average of the five years 1897-08 1,380 1002-03 1,411 1007-03 1,198 ending 9 3 33 8.3 23 25 25 ** 49 59

of the 29,774 detentions ordered in the same period. In 10,364 cases the detained goods were released without the infliction of a fine, Legislature a provision was added to require In this period of twenty years 42 per cent. of the that all piece-goods should be stamped with detentions were on account of the application of their length in yards. In this respect these false trade marks or false trade descriptions, goods are an exception, for the Act does not. In 36 per cent. of the cases detention was ordered require that other descriptions of goods should be stamped or marked, though it requires that the goods are marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the stamped or marked the marks must be a because the provisions of the Act for the correct description. The number of deten-ling of piece-goods had been infringed.

HIDES, SKINS AND LEATHER.

emand for hides, and prices ruled high. While n the continental markets stocks were high wing to overtrading in the previous year, he United States had a shortage which was stimated at approximately two million pieces.
On the declaration of war, the trade which had up till then been brisk was seriously dislo-cated. Exports to enemy countries, especially to the great emporium of Indian hides, Hamburg, were stopped, and exporters had to find 1913-14 the percentage was 21. new markets for the raw material. The raw

India's local manufactures of skins and leather hide business of India, it is well known, has are steadily increased in recent years. Previous hitherto been largely, it not quite entirely, of the outbreak of war, the trade in raw hides in the hands of German firms of firms before the outbreak of war she took 30 per cent, of the total exports. In 1912-13 she took 32 per cent, and in 1913-14, 35 per cent. Raw hides were exported to Trieste in considerable quantities whence they were taken to Germany or Austria. In the four months before the outbreak of war 15 per cent. of India's exports passed through Trieste; in

The main features of the trade in 1910-17 were the large increase in total exports, the record exports of leather, and the large quantities of raw and tanned hides and skins sent to the United States. The exports were :-

Average of five years,	Raw hides and skins including cuttings.	Tanned hides and skins.	Unwrought and manu- factured leather.	Total.
1909-10 to 1913-14 Year 1915-16 ,, 1916-17	Rs 10,31.00,000 0,70,53,000 14,40,80,000	R5. 4,27,45,000 5,61,11,000 9,31,78,000	R-, 2.14.000 2.70.000 12.20,000	Rs. 14,01,10,000 15,43,54,000 23,84,81,000

valued at Re. 14,41 lakhs or 60 per cent, of the total exports. Prices ruled high, and the increase of Re. 4,62 lakhs in the year under review was accounted for by an increase of Rs. 3.60 lakha on account of higher prices, and of R4.1,02 lakhs on account of a greater volume of trade. Exports to the United States have, since the closing of the Central European mar-Germany purchased. In the pre-way year Germany purchased 48 per cent. and Austria-Hungary 10 per cent. of the exports of few bides. The place of these countries has now been partially taken by the United States which in the year under review took nearly 36 per cent, of the raw cow hides exported,

In tanned hides and skins there was an increase of Rs. 2,43 lakis due to higher prices, and Rs. 1,28 lakis due to an increase in the volume of trade. Ninety-nine per cent, of the export of tanned hides want to the United Kingdom which nearly doubled its imports from India as compared with the pre-war average. The total shipment increased by 18 per cent. as compared with 1915-16, and by 76 per cent. as compared with the pre-war average. Nearly one-tenth of the tanned hides were cow hides, the shipments of which increased in the year to 14,000 tons, valued at Rs. 4,03 lakes, from 12,000 tons, valued at Rs. 2,84 lakes, in 1015-10. The exports on Government account (which are included in the figures just quoted) were 7,000 tone valued at its 1,91 lakins. Of tanned skins the United Kingdom and the United States were the nain buyers. The quantity experted

Raw hides and skins, it will be seen, were lin the pre-war quinquennium, viz., 5,400 tons. while that to the United States rose from 800 tons to 2,300 tons. Tanned goat skins were experted to the extent of 4,200 tons. The exports of tanned sheep skins were 3,300 tons.

> The trade in hides and skins and the craft in leather manufacture are in the lands either of Mahomedans or of low caste Hindus, and are on that account participated in by a comparatively small community. The traffic is subject to considerable singularity and the property of the state of the sta with the vicissitudes of the execus. In famine years for instance the exports of untanned hides rise to an abnormal figure. The traffic is also peculiarly affected by the difficulty of obtaining capital and by the religious objection which exigns it to a positive of description. which assigns it to a position of degradation and neglect: it has thus become a monopoly within a restricted community and suffers from the loss of competition and popular interest and favour.

No large industry has changed more rapidly and completely than that of leather. By the chrome process, for example, superior leather may be produced from the strongest buillo bldes in seven days, from cowhide in the control of the charge and the charge the control of the charge and the charge the control of the charge and the charge the char buffile bides in seven days, from cowhide in twenty-four hours, and from sheep and goat skins in six to eight hours; and these operations formerly took thirty days or as much as eighteen months. Of these changes the native tanners of India were slow to take advantage, produced by some of the tanneries, especially those under European management, is in certain respects equal to the best imported articles. But as a result of India being slower. to the United Kingdom was nearly the same as articles. But as a result of India being slow

skins, while the demand for raw skins has increased considerably. The chief tanneries are situated at Cawnpore, Calcutta and Bombay. Efforts are being made to remedy the wastage caused by defective methods of killing and flaying animals,

Indigenous methods.-India possesses large selection of excellent tanning materials such as Acacla pods and bark, Indian sumach, (European factory) leather.

a doopt up-to-date methods, there has been the Tanner's casela, Mangroves, and Myra-a decline in the demand for Indian dressed bolans. By these and such like materials and by various methods and contrivances, hides and skins are extensively cured and tanned and the leather worked up in response to an immense, though purely local, demand. But the inferior quality of the leather so used by effect methods may be illustrated by the fact that the articles produced rarely fetch much more than one-fourth the value of the corresponding articles made of imported or Cawnpore

INVENTIONS AND DESIGNS.

which was published in 1916 by the Government Press, Calcutta, gives the various Acts, rules, and instructions bearing on the subject together with hints for the preparation of specifications and drawings, hints for searchers and other valuable information that has not hitherto been readily accessible to the general public in so convenient a form. In the preface Mr. H. G. Graves, Controller of Patents and Designs, explains the scope of the Patent laws in India and indicates wherein they differ from English law and procedure.

The foundation of patent legislation throughout the world lies in the English "Statute of Monopolies" which was enacted in 1623, 21st year of King James the First. In part this Act has been repealed but the extant portion of the more important section 6 is as follows:—
"Provided also that any declaration before mentioned shall not extend to any letters patent and grants of privilege for the term of fourteen years or under, hereafter to be made of the sole working or making of any manner of new manufactures within this realm to the true and first inventor and inventors of such manufactures, which others at the time of making of such letters patent and grants shall not use, so as also they be not contrary to the law nor mischlevous to the State by raising prices of commodities at home, or hurt of trade, or generally inconvenient; the said fourteen years to be accomplished from the date of the first lotters patent or gmnts of such privilege hereafter to be made, but that the same shall be of such force as they should be if this Act had never been made, and of none other."

The existing Indian patent law is contained in the Indian Patents and Designs Act, 1911, supplemented by the Indian Patents and Designs (Temporary Rules) Act, 1915, and by the Rules made under those Acts. Patent Office does not deal with trade marks or with copyright generally in books, pictures, music and other matters which fall under the Indian Copyright Act III of 1914. There is, in fact, no provision of law in British India for the registration of Trade Marks which are protected under the Merchandise Marks Act (IV of 1889) which forms Chapter XVIII of the Indian Penal Code.

On the whole, Indian law and procedure closely follow that in the United Kingdom for the protection of inventions and the registration

A handbook to the Patent Office in India, of law for the registration of trade marks India cannot become a party to the International Convention under which certain rights of priority are obtainable in other countries.

> The first Indian Act for genting exclusive privileges to inventors was passed in 1856, after an agitation that had been carried on fitfully for some twenty years. Difficulties arising from an uncertainty as to the effect of the Royal Prerogative prevented earlier action, and, owing to some informalities the Act itself and, owing to some informalities the Act 1881, was repealed in the following year. In 1859 it was re-enacted with modifications, and in 1872 the Patterns and Designs Protection Act was passed. The protection of Inventions Act of 1883, dealing with exhibitions, followed, and then the Inventions and Designs Act of 1888. All these are now replaced by the present Act. of 1911.

The existing Acts extend to the whole of British India, including British Baluchistan and the Santhal Parganas. This of course includes Burma but it does not embrace the Native States. Of the latter three, viz., (1) Hydera had (Deccan), (2) Mysore, (3) Gwallor have ordinances of their own, for which particulars must be obtained from the Government of the States in constitution and their constitutions. in question as they are not administered by the Indian Patent Office in Calcutta. The object of the Act of 1911 was to provide a simpler, more direct, and more effective procedure in regard both to the grant of patent rights and to their subsequent existence and operation. The changes made in the law need not here be referred to in detail. They gave further protection both to the inventor, by providing that his application should be kept secret until acceptance, and to the public, by increasing the facilities for opposition at an effective period. At the same time a Controller of Patents and Designs was established, with power to dispose of many matters previously referred to the Governor-General in Council, and provision was made for the council of a and provision was made for the grant of a sealed "patent" instead of for the mero recognition of an "exclusive privilege." The provisions of the Act follow with the necessary modifications those of the British Inventions and Designs Act of 1907.

The annual report of the Indian Patents' Office for the calendar year 1916 states that four hundred and forty-two applications for patents and 1,773 applications to register designs were made in 1916 as compared with of designs, as they always have done in matters 445 and 904 respectively in 1015. The income of major interest. One main difference exists, of the office increased from Rs. 69,760-3 in however, as owing to the absence of provision 1015 to Rs. 77,608-13 in 1916. Figures for

Coinage, Weights and Measures.

rupee, statements with regard to money are generally expressed in rupees, nor has it been found possible in all cases to add a conversion into sterling. Down to about 1873 the gold value of the rupee (containing 165 grains of pure silver) was approximately equal to 2s., or one-tenth of a L, and for that period it is easy to convert rupecs into sterling by striking off the final cipner (118. 1,000 after 1873, owing to the depreciation of eliver after 1873, owing to the depreciation of eliver after 1873, owing to the depreciation of eliver off the final cipher (Rs. 1,000 =£100), But there came a serious and progressive fall in the exchange, until at one time the gold value of the rapes dropped as low as is. In order to provide a remedy for the heavy loss caused to the Government of India in respect of its gold payments to be made in England, and also to relieve foreign trade and finance from the inconvenience due to constant and unforeseen fluctuations in exchange, it was re-solved in 1893 to close the mints to the free coinage of silver, and thus force up the value of the rupee by restricting the circulation. The intention was to raise the exchange value of the rupes to 1s. 4d., and then introduce a gold standard at the rate of Rs. 15=£1. From 1899 onwards the value of the rupes has been maintained, with insignificant fluctuations, at the proposed rate of 1s. 4d., and consequently since that date three rupers have been equivalent to two rupces before 1873. For the intermediate period, between 1873 and 1899 it is manifestly impossible to adopt any fixed sterling value for a constantly changing rupee. But since 1890, if it is desired to convert rupees into sterling, not only must the final cipher; be struck off (as before 1878), but also one-third subtracted from the result. Thus Rs. 1,000=£100-1=(about) £07.

Notation.—Another matter in connection with the expression of money statements in terms of rupces requires to be explained. The method of numerical notation in India differs from that which prevails throughout Europe. Large numbers are not punctuated in hundreds of thousands and millions, but in lakhs and crores. A lakh is one hundred thousand (written out as 1,00,000), and a crore is one hundred lakh or ten millions (written out as 1,00,00,000). Consequently, according to the exchange value of the rupee, a lake of rupces (Rs. 1,00,000) may be read as the equivalent of £10,000 before 1873, and as the equivalent of (about) £0,067 after 1899, while a crore of rupces (Rs. 1,00,00,000) may similarly be read as the equivalent of £1,000,000 before 1873, and as the equivalent of (about) £006,067 affer 1809.

Coinage.-Finally, it should be mentioned that the rupce is divided into 16 annas, a frac-

As the currency of India is based upon the (and Bombay, may be thus expressed one maund 40 seers, one seer=16 chittaks or 80 tolas. The actual weight of a seer varies greatly from District to District, and even from village to village, but in the standard system the tola is 180 grains Troy (the exact weight of the ruper), and the seer thus weighs 2 057 lb., and the mand 82 28 lb. The standard is used in official reports.

Reinii.-For calculating retail prices, the universal custom in India is to express them in terms of seers to the rupee. Thus, when prices change what veries is not the amount of money to be paid for the same quantity, but the quanti-ty to be obtained for the same amount of money. In other words, prices in India are quantity prices, not money prices. When the figure of quantity goes up, this of course means that the price has gone down, which is at first sight perplexing to an English reader. It may, however, be mentioned that quantity prices are not altogether unknown in England, especially at small shops where pennyworths of many groceries can be bought. Eggs, likewise, are commonly sold at a varying number for the shilling. If it be desired to convert quantity prices from Indian into English denominations without having recourse to money prices (which would often be mi-leading), the following scale may be adopted-based upon the assumption that a seer is exactly 2 lb., and that the value of the rupee remains constant at 1s. 4d., 1 seer per rupce=(about) 3 lb. for 2s., 2 seers per rupce=(about) 6 lb. for 2s., and so on.

The name of the unit for square measure-ment in India generally is the bigha, which varies greatly in different parts of the country. But areas have been expressed in this work either in square miles or in acres.

Proposed reforms.—Indian weights and measures have nover been settled upon an organised basis suitable for commerce and trade characteristic of the modern age. vary from town to town and village to village in a way that could only work satisfactorily so long as the dealings of towns and villages were self-contained and before roads and railways opened up trade between one and the other. It is pointed out that in England a hog-head of wine contains 63 gallons and a hogshead of beer only 54 gallons; that a bushel of corn weighs 40 lbs. in Sunderland and 240 lbs. in Cornwall; that the English stone weight represents 14 lbs. in popular estimation, but only 5 lbs., if we are neighing glass, and cight for meat, but 6 lbs. for cheese. Similar instances are multipled in India by at least as many times as India is bigger than England. If we take, for instance, the maund denomination of weight common all over tion commonly used for many purposes by India, we shall find that in a given city there both Natives and Europeans. The anna was are nearly as many maunds as there are articles formerly reckoned as 1Id., it may now be to weigh. If we consider the maund as beconsidered as exactly corresponding to 1d. tween district and district the state of affairs. The anna is again sub-divided into 12 pics. Is worse. Thus in the United Provinces alone, is worse. Thus in the United Provinces alone, Weights.—The various systems of weights the maund of sugar weights 481 seers in Cawnused in India combine uniformity of scale pore, 40 in Muttra, 721 in Gorakhpur, 40 in with immense variations in the weight of Agra, 50 in Moradabad, 431 in Saharanpur, units. The scale used generally throughout 50 in Barelly, 40 in Fyzabad, 481 in Shahraranpur, 51 in Goshangunge. The maund

varies throughout all India from the Bengal [Measures Association and the Decimal Asso .t 21 lbs, and so on.

rpical instances which are multiplied indelliltely. There are variations of every detail of weights and measures in every part of India. The loses to trade arising from the confusion and the trouble which this state of things causes are heavy. Municipal and commercial bodies are continually returning to the problem with a view to devising a practical schomo of reform. The Supreme an I Provincial Governments have made various attempts during 40 years past to solve the problem of universal units of weights and measures and commorce and trade have agitated about the question for the past century. The Indian railways and Government departments adopted a standard tola (180 grains), seer (80 tolas) and maund (40 seers) and it was hoped that this would act as a successful "lead" which would gradually be followed by trade throughout the empire, but the expectation has not been realised.

The Government of India considered the whole question in consultation with the proviacial Governments in 1800-1801 and various special steps have at different times been taken in different parts of India. The Goverament of Bombay appointed a committee in 1011 to make proposals for reform for the Bombay Presidency. Their final report has not been published, but they presented in 1912 an ad interim report which has been issued for public discussion. In brief, it points out the practical impossibility of proceeding by computery measures affecting the whole of India. The Committee stated that over the in bringing about the desired reform so successfully as a "lead" supplied by local legislation folly as a "fead" supplied by local legislation based on practical experience. The want of coherence, saroli faire, or the means of coof coherence, saroir faire, or the means of co-operation among the people at large pointed to this conclusion. The Committee pointed out that a good example of the results that will follow a good lead is apparent in the East Khandesh District of the Presidency, where the District Officer, Mr. Simcox, gradually, during the course of three years, induced the people to adopt throughout the district uni-form weights and measures the unit of weight form weights and measures, the unit of weight in this case being a tola of 180 grains. But the committee abstained from recommending that the same weights and measures should be adopted over the whole Presidency, pre-ferring that a new system started in any area should be as nearly as possible similar to the best system already prevailing there.

Proposals from England.—Suggestions referred to the lave been made by the British Weights and their consideration

or railway maund of 82-27 fibs, to the Factory clation, respectively, at different times that maund of 71 lbs. 1004. 11drs., the Bombay British weights and measures and the decimal maund of 23 lbs., which apparently answers system should be introduced. Both proposals to the Forest Department maund in use at the full to meet the special requirements set forth Fuel Depot, and the Madras maund, which by the Bombay Committee. Variations of some authorities estimate at 25 lbs, and others them which have been put forward by different hodies in India in recent years are that the English pound weight and the English hundred-Committees of Inquiry.—These are merely weight should be adopted as the unit of weight for all India. The argument in favour of the importation of an outside unit in this manner is that people in India will always associate with a given, familiar denomination of weight or measure the value they have been accustomed to consider in regard to it, but that if a new weight were introduced they would learn to use it in dealing with their neighbours, without the interference of anything resembling prejudice at what they might regard as an attempt to tamper with their old, traditional standards of dealing.

Committee of 1913.—The whole problem was again brought under special consideration by the Government of India in October, 1913, when the following committee was appointed to inquire into the entire subject anew :-

Mr. C. A. Silberrard (President). Mr. A. Y. G. Campbell. Mr. Rustomji Fardoonji.

This Committee reported, in August, 1915, in favour of a uniform system of weights to be adopted in India based on the 180 grain tola. The report says:—Of all such systems is no doubt that the most widespread and best known is that known as the Bengal or Indian known is that known as the Bengal or Indian Hailway weights. The introduction of this system involves a more or less considerable change of system in parts of the United Provinces (Gorakhpur, Barellly and neighbouring areas), practically the whole of Madras, parts of the Punjab (rural portions of Annitsar and neighbouring districts), of Bombay (South Bombay, Bombay city and Gujarat), and the North West Frontier Province, Burma has at present a separate system of its own which the

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The tola is the tola of 180 grains, equal to the rupes weight. The viss has recently been fixed at 3° 60 lbs. or 140 tolas.

The recommendations of the Commission met with general approval and have been referred to the Provincial Governments for

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Life Insurance.

in British India, published by the Government of India, give much information in regard to life Argurance Companies subject to all the provisions of the Indian Life Argurance Companies subject to all the provisions of the Indian Life Argurance Companies subject to all the provisions of the Indian Life Argurance Companies Act, 1012, and some of those which are partially exempt from the Indian Act on the ground that they carry on business in the United Kingdom and comply with the provisions of the British Argurance Companies Act of 1902. It should be noticed that the various pension funds connected with Government revisees are exempted from the compliance with the Indian Life Indian Reports In India.

In his introductory note to the official publication already mentioned, Mr. H. G. W. Mislie, Actuary to the Government of India, states that the total amount of the investments and other recalisable essets of Indian Companies to worth nearly 700 crosses of rupers; more than that Predictivey or combined in India.

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The oldest of the Indian Companies were established in Madras about 80 years ago: Bombay has none older than the Bombay Midual, the Oriental and the Bombay Widows'

pounds sterling.

The new sums assured by Indian companies, Bombay has none older than the Bombay under ordinary life about 12 crores as 40 years ago. Life Assurance seems not to have been started in Bengal until much later, previous years, respectively.

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The following is the list of British, Colonial and Foreign Companies doing business both in the United Kingdom and in India partially exempted from the Indian Act, and the classes of business, in addition to Life Assurance, transacted by them:—

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Chambers of Commerce.

merciants from the west and was for a long of the Climber until a new Committee should time entirely in their hards. Chambers of he appointed a year later. The Congress also Commerce and numerous kindred Associa, approved of the draft constitution. The following are the principal prin according to the natural profliction and rentus of different races, Bombay, for instance, has lot the way in the industrial and commernas ist the way in the industrial and commers will be in Bombay vial represents of the new India, while Bengal.

III. The object well active in other fields of activity, lars established are included and activities of activity, lars established are included and in Bombay. Rarachl, Calcutta, Madina and other important central, with a membership interesta, both European and Indian; but along ille there have spring up in recent years certain Arrogalistics, anchos the Bombay Indian Merchantal. clations, such as the Bembay Indian Merchants' Chamber and Bureau, of which the membership is exclusively Indian. There different classes of holles are ly no sense hostile to one another and constantly work in accountion.

The Levidon Chamber of Commerce in 1912. realising the increasing attention demanded by the economic development of India, took rieps to form an "East India Section" of their organization. The Indian Chambers work harminfourly with this body, but are in no sense affillated to it, nor is there at present any inclination on their part to enter into such class relationship, because it is generally felt that the Indian Chambers can themselves achieve their objects better and more effectively than a London body could do for them, and on various occasions the London Chamber, or the East India Section of it have shown themselves out of touch with what reemed locally to be immediate requirements in particular matters.

A new movement was started in 1913 by the Hon, Sir Fazulbloy Currimbley Ibrahim, a leading millowner and public citizen if Bombay, which promises to lead to great improvement in strengthening Indian com-peried organization. Sir l'azulbhoy's original than was for the formation of an Indian Com-percial Congress. The proposal met with ap-groval in all parts of India. The scheme was clayed by the outbreak of war but afterwards eccived an impetus from the same cause and be first Congress was held in the 1913 Christman oliday season in the Town Hall, Bombay, hellst of members of the Reception Committee nowed that all the important commercial sociations of Bombay were prepared to coperate actively.

The Congress was attended by several hundred elecates from all parts of India. Mr. D. E. Facha, President of the Bombay Indian Meriants' Chamber, presided, as Chairman of the eception Committee, at the opening of the occedings and the first business was the ection of Sir Fazulthoy Currimbhoy as the attraction of Commerce, and elected a Provincial ammittee empowered to take the necessary has to get the Association registered and to The Congress was attended by several hundred bps to get the Association registered and to

Modern commerce to India seas I will up by enrol members and carry on work as Committee

ara a

The following are the principal paragraphs of a Memorandum of Association of the new

I. The name of the Chamber will be "THE As ociated Indian Chauten of Commence,"
II, The Registered Office of the Chamber will be in Bombay.

The objects for which the Chamber I-

(a) To discuss and consider questions concerning and affecting trade, commore, manufactures, and the shipping interests, at meeting of delegates from Indian Chambers of Commerce and Commercial Associations or Bodies and to collect and disseminate information from time to time on matters affecting the common interests of such Chambers or Associations or Bodies and the commercial, manufacturing and shipplug interests of the country.
(b) To communicate the opinions of the

Chambers of Commerce and other Commercial Associations or Boiles reprintely or unitedly, to the Government or to the various departments thereof, by letter, memorial, deputa-tion or otherwise.

(c) To petition Parliament or the Government of India or any Local Government or authority on any matter affecting trade, commerce, manu-

facture or shipping.

(d) To prepare and promote in Parliament or in the Legislative Councils of India, both Impetial and Provincial, Bills in the interest of trade, commerce, manufactures, and shipping of the country and to oppose measures which, in the opinion of the Chamber, and likely to be injurious to those interests.

(e) To attain those advantages by united action which each Chamber or Asso-ciation or body may not be able to accomplish in its separate capacity.

(f) To have power to establish an office either in England or in any part of Entitle India with an Agent there, in order to ensure to the Various Chambers early and reliable laformation on matters affecting their interests and to facilitate communication between the Chamber or individual chambers and the Government or other public bodies, and generally to conduct and carry on the affairs of the Chamber.

(g) To organise Chambers of Commerce, Commercial Associations or Bodies in different trade centres of the Country.

(h) To convene when necessary the Indian Commercial Congress at such places and at such times as may be deter-mined by a Resolution of the Chamber.

' (f) To do all such other things as may be incidental or conductve to the above objects.

A. Cochran (Burn & Co., Ltd.) and W. Lamond (Union Jute Co., Ltd.)

Calcutta Improvement Trust-Mr. W. K. Dods (Agent, Hongkong and Shanghai Banking Cornoration).

The Chamber elects representatives to various other bodies of less importance, such as the committee of the Calcutta Sallors' Home, and to numerous subsidiary associations, The following are the recognized associations of the Bengal Chamber of Commerce:—

Calcutta Wheat and Seed Trade Association, Indian Jute Mills' Association, Indian Tea Association, Calcutta Tea Traders' Associa-tion, Calcutta Fire 'Insurance Agents' Assotion, Calcutta Fire 'Insurance Agents' Association, Calcutta Import Trade Association, Calcutta Marine Insurance Agents' Association, Calcutta Marine Insurance Agents' Association, The Wine, Spirit and Beer Association of India, Indian Mining Association, Calcutta Baled Jute Association, Indian Paper Makers' Association, Indian Engineering Association, Jute Fabrics Shippers' Association, Calcutta Hydraulic Press Association, Jute Fabric Brokers' Association, Baled Jute Shippers' Association, European Jute Dealers' Association and Calcutta Liners' Conference. cutta Linera' Conference.

The Chamber maintains a Tribunal of Arbltration for the determination, settlement and adjustment of disputes and differences relating matters under discussion.

Renga Smoke Nulsances Commission-Messrs, to trade, business, manufactures, and to cus-A. Cochran (Burn & Co., Ltd.) and W. toms of trade, between parties, all or any of whom reside or carry on business personally or by agent or otherwise in Calcutta, or elsewhere in India or Burmah, by whomsoever of such parties the said disputes and differences be submitted. The Secretary of the Cham-ber acts as the Registrar of the Tribunal, which consists of such members or assistants to members as may, from time to time, annually or otherwise be selected by the Registrar and willing to serve on the Tribunal. The Re-gistrar from time to time makes a list of such members and assistants.

The Chamber also maintains a Licensed Measurers Department controlled by a special committee. It includes a Superintendent (Mr. Jas. Knox), Deputy Superintendent (Mr. A. H. Lugg) and one Assistant Superintendent and the staff at the time of the last official returns consisted of 132 officers. The usual system of work for the benefit of the trade of the port is followed. The Department has its own provident fund and compassionate fund and Measurors' Club. The Chamber does not assist in the preparation of official statistical returns. It publishes weekly the Calculta Prices Current and its Monthly Supplement and also publishes a large number of statistical circulars of various descriptions in addition to a monthly abstract of proceedings and many other circulars on

BOMBAY.

The object and duties of the Bombay Cham-er, as set forth in their rules and regulations, 3 firms of solicitors, 3 railway companies, to encourage a friendly feeling and unani-tinsurance companies, 8 engineers and contracber, as set forth in their rules and regulations, are to encourage a friendly feeling and unanimity among commercial men on all subjects involving their common good; to promote and protect the general mercantile interests of this Presidency; to collect and classify inform-ation on all matters of general commercial interest; to obtain the removal, as far as such a Society can, of all acknowledged grievances affecting merchants as a body, or mercantile interests in general; to receive and decide references on matters of usage and custom in dispute, recording such decisions for future guildance, and by this and such other means, as the Committee for the time being may think fit, assisting to form a code of practice for simplifying and facilitating business; to communicate with the public authorities, with similar Associations in other places and with individuals, on all subjects of general mercantile interests; and to arbitrate between parties willing to refer to, and abide by, the judgment of the Chamber.

The Bombay Chamber was established in 1836, under the auspices of Sir Robert Grant, who was then Governor of the Presidency, and the programme described above was embodied in their first set of rules. There is amiliated with the Chamber the Bombay Millowners' Association, which exists to carry out the same general objects as the Chamber in the special interests of "millowners and users of steam and water power." According to the latest returns, the number of members of the Cham-ber, subject to such regulations as the com-ber is 130. Of these 16 represent banking infittee may make in regard to the matter.

tors, 01 firms engaged in general mercantile business.

All persons engaged or interested in mercantile pursuits desirous of joining the Chamber and disposed to aid in carrying its objects into effect are eligible to election to membership by ballot. The member's subscription is Rs. 20 per month and an additional charge of Rs. 240 per annum is made to firms as subscription to the trade returns published by the Chamber. Gentlemen distinguished for public services, or "eminent in commerce and manufactures," may be elected honorary members and as such are exempt from paying subscriptions. Any stranger engaged or interested in mercantile pursuits and visiting the Presidency may be introduced as a visitor by any Member of the Chamber inserting his name in a book to be kept for the purpose, but a residence of two months shall subject him to the rule for the admission of residence of two admission of members.

Officers of the Year.

The affairs and funds of the Chamber are managed by a committee of nine ordinary members, consisting of the chairman and deputy-chairman and seven members. The committee must, as a rule, meet at least once a week and the minutes of its proceedings are open to inspection by all members of the Chamber, subject to such regulations as the comA general meeting of the Chamber must be held once a year and ten or more members may requisition, through the officers of the Chamber, a special meeting at any time, for a specific purposo.

The Chamber elects representatives as follow to various public bodies :-

Legislative Council of the Governor-General, one representative. The Chamber may elect anyone, but in practice they have hitherto returned their chairman.

Legislative Council of the Governor of Bombay, one representative, who may also be anyone, but is, in practice, always the deputy chairman.

Bombay Municipal Corporation, two members, elected for three years.

Board of Trustees for the Improvement of the City of Bombay, one member, elected for two years.

Board of Trustees of the Port of Bombay. five members, two and three being elected in alternate years.

Representatives on the Legislative Councils become ex-officio members of the committee import divisions, which it is desimble to of the Chamber, during their terms of office, if they are not already members.

The following are the officers of the Chamber for the year 1917-18 and their representatives on the various public bodies :--

Chairman .- The Hon'ble Mr. Malcolm N. Hogg (Forbes, Forbes, Campbell & Co., Ld.)

Deputy Chairman .- The Hon'ble Mr. W. M. Ross (Ewart Latham & Co.).

Committee.—Messrs. J. H. Fyle (Mackinnon, Mackenzic & Co.), S. J. Gillium (The Bombay Co., Id.), H. P. Hebblethwaite (Killick Nixon & Co.), Major H. A. L. Hepper, R.E. (G. L. P. Ry.), Messrs. Raiph Kidd (Matkenal Bank of India, Id.), Nigel A. J. Raymond (E. D. Sassoon & Co.), and

Secretary : Mr. R. E. Gregor-Pearse.

Representatives on-

· Viceregal Legislative Council: The Chair-

Bombay Improvement Trust: Mr. A. M. Tod.

Bombay Port Trust: The Hon'ble Malcolm N. Hogg, Mr. J. S. Wardlaw Milne, Mr. Nigel F. Paton, Mr. A. H. Froom, Mr. T. W. Birkett.

Bombay Municipality: Messrs. A. M. Tod (British Dominions General Insurance Co., Ld.) and Harry T. Gorrie (South British Insurance Co., Ld.).

Advisory Board of Sydenham College of Commerce and Economics: Messrs. W. A. Haig Brown and J. S. Wardlaw Milne.

Commission: Bomlan Smoke Nuisances The Hon, Mr. Malcolm N. Hogg.

Committee George's Hospital Advisory Sir Stanley Reed, Kt., LL.D.

Special Work.

One of the most important functions performed by the Chamber is that of arbitration in commercial disputes. Rules for this have been in existence for many years and have worked most satisfactorily. The decisions are in all cases given by competent arbitrators appointed by the General Committee of the Chamber and the system avoids the great expense of resort to the Law Courts.

A special department of the Bombay Chambel is its Statistical Department, which prepare a large amount of statistical returns connected with the trade of the port and of great importance to the conduct of commerce. The department consists of eleven Indian clerks who, by the authority of Government, work in the Customs House and have ever at their disposal by the facility placed They compile all the Customs authorities. with statistical information in connection the trade of the port, in both export and No other Chamber in India does record. work. elmilar

The Bombay Chamber publish a Dally Am val Return which shows the receipts into Bombay of cotton, wheat and seeds, and Daily Trade Return, which deals with trade by sea and shows in great detail imports of various kinds of merchandise and of treasure while the same return contains particulars of the movements of merchant vessels.

The Chamber publishes twice a week detailed reports known as "Import and "Export manifests, which give particulars of the cargo car-ried by each steamer to and from Bombay.

*Three statements are issued once a month One shows the quantity of exports of cotton; seeds and wheat from the principal ports of the whole of India. The second gives in detail imports from Europe, more particularly is regard to grey cloths, bleached cloths, Turks, red and scarlet cloths, printed and dyed goods Viceregal Legislative Council: The Chairman.

fancy cloth of various descriptions, woolked yarus, metals, kerosine oil, coal, aniline dyes, sugar, matches, wines and other sundry goods. The third statement is headed, "Movement Chairman. of Piece Goods and Yarn by Rail," and show the despatches of imported and local manufactured piece-goods and yarn from Bombay to other centres of trade served by the rallways

> "The "Weekly Return" Issued by the Chamber shows clearances of a large number of important descriptions of merchandist A return of "Current Quotations" is issued once a week, on the day of the departure of the English mail, and shows the rates of exchange for Bank and Mercantile Bills on England and Paris and of the Control of the Con Paris, and a large quantity of general banking and trade information.

> The annual reports of the Chamber at substantial tomes in which the whole of the

. The publication of these returns has been temporarily suspended by order of Government.

affairs of the Chamber and the trade of the port during the past year are reviewed.

The Chamber has also a Measurement Department with a staff of fourteen, whose business is that of netual measurement of exports in the docks before leading in steamers. Cortificates are issued by these officers with the authority of the Chamber to shippers and ship agents as to the measurement of cotton and other goods in bales or packages. The measurement in attendance on the quays whenever there are goods to be measured and during the busy season are on duty early and late. The certificates granted show the following details:—

- (a) the date, hour and place of measurement:
- (b) the name of the shipper;
- (c) the name of the vessel;
- (d) the port of destination;
- (e) the number and description of packages;
- (f) the marks;
- (g) the measurement; and, in the case of goods shipped by boats,
- (h) the registered number of the boat;
- (i) the name of the tindal.

Bombay Millowners' Association.

The Bombay Millowners' Association was established in 1875 and its objects are as follow:---

- (a) The protection of the interests of millowners and users of steam, water and/or electric power in India;
- (b) The promotion of good relations between the persons and bodies using such power;
- (c) The doing of all those acts and things by which these objects may be furthered.

Any individual partnership or company, owning one or more mill or mills or one or more press or presses or one or more gluning or other factory or factories actuated by steam, water, electric and/or other power is eligible for membership, members being elected by ballot. Every member is entitled to one vote for every complete sum of Rs. 50 paid by him as annual subscription.

The membership of the Association in 1917 numbered 98.

The following is the Committee for 1017:-

The Hon. Sir D. E. Wacha, Kt. (Chairman), N. G. Hunt, Esq. (Dy. Chairman), The Hon. Sir Dinehaw M. Petit, Bark, Sir Sassoon David, Bart, The Hon. Sir Fazulbhey Currimbhey, Kt., Sir Vithaldas D. Thackersey, Kt., The Hon'ble Mr. O. V. Mchta, The Hon. Mr. Munmohandas Ramil, W. H. Brady, Esq., B. Brown, Esq., Rahimtoola Currimbhey Ebrahim, Esq., Rahimtoola Currimbhey Ebrahim, Esq., Mathradas Goculdas, Esq., Narottam M. Goenidas, Esq., Cowasice Jehangir, Esq. (Jun.), J. H. Latimer, Esq., Meyor Nissim, Esq., Jehangir B. Petit, Esq., N. B. Saklatwalla, Esq., C. N. Wadia, Esq., N. N. Wadia, Esq., N. N.

Mr. R. E. Gregor-Pearse, Secretary.

The following are the Association's Representatives on public bodies:—

Legislative Council of H. E. the Governor of Bombay: The Hon'ble Sir Dinshaw M. Petit, Bart.

Bombay Port Trust: Sir Vithaldas D. Thackersoy, Kt.

City of Bombay Improvement Trust: Si-Bassoon David, Bart.

Victoria Jubileo Technical Institute: Mr Johangir Bomanjee Petit.

Bombay Smoke Nuisances Commission Messrs, C. N. Wadia and W. Δ. Sutherland

Advisory Board of Sydenham College of Commerce and Economics : Mr. N. N. Wadle

Indian Merchants' Chamber.

The Bombay Indian Merchants' Chamber and Bureau was established in 1907 with the following objects:—"To encourage a friendly feeling and unanimity among commercial men on all subjects involving their common good; to promote and protect the trade, commerce and manufactures of India and in particular to promote the general commercial interests of the Presidency of Bombay; to consider and deliberate on all questions affecting the rights of Indian Merchants, to represent to the Government their grievances, if any, and to obtain by constitutional methods the removal of such grievances; to collect and compile and distribute in such manner as may be most expedient for purposes of disseminating commercial and economic knowledge, all statistics and other information relating to trade, commerce and finance, specially Indian; as well as to form and maintain a library, and generally to do all such matters as may promote the above objects in view; to arbitrate between parties willing to refer to and abile by the judgment of the Chamber; to receive and decide references of matters of usage and custom in dispute, recording such decisions for future guidance and assisting by this and such other means, as the committee for the time being may think fit, to form a code of practice, so as to simplify and facilitate the transaction of business."

The Chamber has not yet taken up the work of arbitration, measurements, etc.

The following bodies are connected directly and indirectly with the Chamber, though no public body is directly affiliated to it:—

The Bombay Native Piece-goods Merchants' Association (which sends a large number of representatives);

The Grain Merchants' Association (which is a member);

The Hindustani Native Merchants' Association (which is a member);

The Bombay Country Tobacco Trade Association;

The Bombay Rice Merchants' Association:

The Bombay Fancy-Piece-goods Association;

The Bombay Yarn, Copper and Brass Native Merchants' Association.

The Chamber elects a representative jointly with the Bombay Native Piece-goods Merchants' Association to the Bombay Legi-lative Council and a representative to the Bontd of Trustees for the Port of Bombay, whenever it is so notified by the Government (cide Act No. 1 of 1909). The Chamber also has the right to elect a representative on the Board of the Sydenium College of Commerce and Leono.

Any person engaged in mercantile pursuits or interested in trade and commerce destrous of joining the Chamber is eligible for membership, there being two classes of members, riz., Ordinary and Honorary. Ordinary members shall be (1) Resident members who pay Its. 30 annual fee, except that if an Association joins! annual tee, except that it an Association points as a member it will have to pay an annual fee of Rs. 100, and (2) Mofussil members who pay Rs. 6 as annual fee. An ordinary member also pays an entrance fee of Rs. 50 on being elected.

Gentlemen distinguished for public services or emblent in commerce and manufactures or otherwise interested in the alms and objects of the Chamber may be elected as Honorary members by a General Meeting of the Chamber on the recommendation of the Committee and as such are exempted from paying subscriptions. They are not entitled to vote at any meeting of the Chamber nor are they ellgible to serve on the Committee. llowever, supplied with all the publications of the Chamber free of charge.

The following are the Officers of the Chamber for the year 1917-18 :-

Chairman .- Sir Vithaldas Damoder Thaker-

Vice-Chairman .- The Hon. Mr. Chunffal V.

Committee.—The Hon. Sir Dinshah Edulji Wachha, The Hon. Sir Landidan Currimble, The Hon. Mr. John Jacob, Mafor ilimulla, The Hon. Mr. John Jacob, Materialis, C.I.F., Kidlon, V. G. Mantonlandas Ramji, Tie Kidlon, W. Purshottamdas Thakoredas, J. J. Jacob, The Hon. Mr. Purshottamdas Thakoredas, The Change of the

Phiroz C. Setlina, Mescre. Devidas Madhaoji Thukersey, Jethabhai Valji, Rewalani Valji, Valjah Mathai shanker Jagjiwan, Motilal Vallabhill, Motilal, Kanji, Chaturbhuj Shiyi, Phiroz J. Billimorla, Mulji Barkdas, Mathutadas Vasanji Khlmji, Ratansey Mulji, S. E. Warden, Morarji Velji, Janmadas Dwatka-das Dharamsey, W. T. Halai, and J. B.

The following are the Chambers' representatives on various public bodies :--

Bombay Legislative Council.-The Hon, MI. Manmohandas Ramji.

The staff of the Chamber Include :-Secretary .- Mr. S. S. Mehta, B.A.

Arrivant Secretary,--- Mi. .1). к. Melita, . L.E.F.

Hong. Andilor .- Mr. Ardeshli Edulff Kanasa C.A. (A. C. Rice & Co.)

Solicitors :- Messrs. Edgelow, Guldlehand, Wadla & Co.

The Chamber publishes every month a Journal in Gujarati giving information on commercial and industrial subjects and publishing all statistics considered important relating to the trade and commerce of India.

Cotton Trade Association.

Bombay Cotton Trade Association Limited, was founded in 1876. The objects for which it was established were, inter alia, "to adjust disputes between persons engaged in the cotton trade, to establish just and equitable principles in the trade, to maintain uniformity to rules, regulations and usages in the trade, to adopt standards of classification in the trade, to acquire, preserve and disseminate useful information connected with the cotton interests throughout all markets and generally to pro-imote the cotton trade of the City of Bombay and India and augment the facilities with which it may be conducted." In 1892 the Association was incorporated under the Indian Companies Act, 1882, with a Capital of Rs, 50,000, in 50 shares of Rs, 1,000 cach. In 1017 the share capital was increased to Rs. 60,000. In addition to the shareholders (Members), the Association had in 1017 153 Associate Members. The affairs of the Company are managed by Board of Directors not less than nine or mor than twenty in number. The Present Direct torate is constituted as follows :-

Chairman -- Mr. T. D. Moore (New Mofus-Co., Ltd.).

Deputy Chairman,-Mr. Osborne Marshal (Drennen & C).

M. 48. J. L. Alinsworth (Gill & Co.), L. V. M. du Breul (Breul & Co.), H. F. Burk (The Bombay Co., Ltd.), G. Boyagis (Raihl Brothers), J. P. Chrystal (P. Chrystal & Co.)), I. Iguchi (Japan Cotton Trading Co.), M. Muller (Volkart Brothers), N. Takenchi (Mitsui Bussan Kaisha, Ltd.), C. N. Wadia (The Century Spinning & Weaving Co., Ltd.).

Secretary, - Mr. No. I Wilkinson, B.A., F.I.S.A.

Bombay Native Piece-Goods Merchants' Association.

The objects of the Association are as follow:-Bombay Port Trust.—The Hon. Mr. Man- and unity amongst the Meremants, the base mohandas Ramji.

Bombay, and to protect the interest thereof;

Bombay, and to protect the interest thereof; (a) To promote by creating friendly feelings and unity amongst the Merchants, the busi-Addisory Board of the Sydenham College of (b) to remove, as far as it will be within the Industrial Advisory Board of the Government of difficulties of the piece-goods business and to Bombay.—The Hon. Sir Lazulbhoy Currinframe such line of conduct as will facilitate the trade. (A) to ellect and specific statistics powers of the Association to do so, all the trade dimentities of the piece-goods business and to the trade; (c) to collect and assort statistics relating to piece-goods and to correspond with public bodies on matters affecting trade, and which may be deemed advisable for the pro.

toffer and alterestant of the first of the A wildly or are of those and that a decire and deate disputes that may be referred to for all Bratting

Her following any the office-bearing for the current year.

Clear to ... The Hone Mr. Matitaghanday Errill.

Inc. by Ohio on - Mr. Daliday Madhavill Hickory of J.P.

 $H_{2} \subset \mathcal{A}$ is a Secretorial σ — Mercial Adji Gavandji and to othe Burd Duch.

H we. Trempier .-- Mr. Mathuradas Haridae.

Grain Merchants' Association.

The object of this leady is "to promote the intention of the merchants and to put the I grain and seeds trade on a round footing," to an influential body of large membership. The office helders for the current year are as follow .--

Chairman - Mr. Hirft Mulit, of Messry, Dhard. Naudi & Co.

Pfcc-Chairman+Mr. Velli Lakhanel, B.A., IL.B.

Honn, Secretary-Mr. Shamil Shivil. Secretary-Mr. Laldanker Harprasad.

KARACHI.

The objects and duths of the Karachi Chamse H. F. Publer (Ralli Brother.), T. J. Stephen I race + 1 forth in terms similar to those of (National Bank of India, Id.), D. B. Trevol Bombay, Qualifications for membership are (North Western Rallway), and S. C. Woodal cointlar. Honorary membership is con-ferred upon "any gentlemen interested in the sitairs and objects of the Chamber", subject to the then by the inspority of the votes of member. All new members bloing the Chamber pay Es, 100 entrance fee and the monthly sub-Re, 600 to the Chamber Pund, in addition to entrance for, and Rs. 12 without such contribu-The subscription for the Chamber's perisdical returns is its, 5 per month. The affairs of the Chamber are managed by a committee of 1en members, constiting of a Chairman. Vice-Chairman and eight members, elected at the annual meeting of the Chamber in January or immediately after. The Chamber elects a representative on the Bombay Legislative Council and this exertes cotally exon the Karachi Port Trust. There were last year 50 members of the Chamber, and 7 Honorary Members.

The following are the officers of the Chamber for the current year .-

Chaleman, -Mr. M. d. P. Webb, C.L. Clorbes

Ports - Campbell & to, Ld)

Piece Chairman + The Hon'ble Mr. W. U. Meliotas (Anderson & Co.)

ward (Chiments, Robson & Co.).

Representative on the Bombay Lygislatice Conneil -The Hon, Mr. W. U. Nicholas,

Representative on the Karachi Port Trust-Mr. J. R. Baster, Mr. E. A. Pearson and Mr. S. C. Woodward.

Secretary-Mr. D. L. Rogers.

Public Measurer-Captain S. Myleri-t.

The following are the principal ways in which the Chamber gives a special assistance to members. The Committee take into consideration and give an opinion upon questions submitted by members regarding the custom of the trade or of the Port of Karachi. The Committee undertake to nominate European surveyors for the settlements of disputes "as to the quality or condition of merchandise as to the quality in which both parties desire the Chamber to do so." When two members of the Chamber do ro." or when one member and a party who is not a member have agreed to refer disputes to the arbitration of the Chamber or of an arbitrator or arbitrators nominated by the Chamber, the Committee will undertake to nominate an arbitrator or arbitrators, under Managing Committee, Messes, L. Bracht certain regulations, A public measurer is thank to, 12d.), H. G. Houghton appointed under the authority of the Chamber (Demaid Graham & Co), J. M. Lang (Bombay to measure pressed bales of cotton, wool, Co. 12l.), J. I. Morray (Ewart Byric & Co.), hemp, hides and other merchandle in Karnehi.

MADRAS.

The Madras Chamber of Commerce was founded in 1886. All merchants and other persons engaged or interested in the general trade, commerce and manufactures of Madras are eligible for membership. Any assistant signing a firm or signing per pro for a firm is eligible. Members who are absent from Madray but pay their subscriptions may be represented in the Cham-state of the Chamber's finances. Absentees ber by their powers-of-attorney, as honorary in Europe pay no subscription and members members, subject to ballot. Honorary mem- temporarily absent from Madras pay one ruped bers thus elected are entitled to the full privilege per month. Honorary members are admissible of ordinary members. Election for membership; to the Chamber on the usual conditions. Mem-is by ballot at a general meeting, a majority bers becoming insolvent cease to be members of two-thirds of the recorded votes being but are eligible for re-election without repaymenters ary to recure election. Every member ment of the entrance donation, pays an entrance fee of Rs. 100, provided that

banks, corporate bodies and mercantile firms may be represented on the Chamber by one or more members and are liable for an entrance fee of Rs. 100 once in ten years each. The subscription shall not exceed Rs. 160 per annum, payable quarterly in advance, subject to reduction from time to time in accordance with the

غييية

The Chamber undertakes arbitrations and surv ... and ks. One of the rules * - -· no trado mark on ticket shall be registered on behalf of an Indian firm trading under a European name.

The following publications are issued by the Chamber :-- Madras Price Current and Market Report, Tonnago Schedule and Madras Landing Charges and Harbour Dues Schedule.

There are 40 members and five honorary members of the Chamber in the current year and the officers and committee for the year are

as follows:-Chairman .- The Hon'ble Mr. Gordon Fraser. Vice-Chairman-Slr Bernard Hunter.

Committee.—Mr. A. J. Leoch, Mr. H. P. M. Rao, Mr. A. P. Symonds, Mr. F. E. L. Worke, Mr. F. B. Wathen.

Acting Secretary .- Mr. T. E. Welby.

Secretary .- Mr. A. E. Lawson, C.L.E.

The following are bodies to which the Chamber are entitled to elect representatives, and the representatives elected for the year:-

Madras Legislative Council-The Hon'ble Mr. Gordon Fraser.

Madras Port Trust—The Hon'ble Mr. Gordon Fraser (Messrs. Best & Co., Ld.), Mr. H. P. M. Rao (The Bombay Co., Ld.), Sir Hugh Fraser (Messrs. Gordon Woodroffe & Co.), Mr. R. Todd (Madras & Southern Mahratta Railway Co., Ld.), Mr. M. Handley, Mr. A. Todd Ed.), the Hon'ble Mr. A. Mulrhead, c.i.e. (The South Indian Railway Co., Ld.), Mr. J. H. Thonger (Madras Trades' Association).

Madras Municipal Corporation.—Mr. A. J. Leech (Messrs. T. A. Taylor & Co.), Mr. A. P. Symonds (Messrs. Binny & Co., Ld.), A. J. Powell (Madras Electric Tramway Co., Ld.).

Nominated by Government mustain work, r. Gordon Fraser (Bon. St. - 1 - 1 ho Horibic rusha (Wilson Alon, Mr. 2 est & Co., Ld.), Mr. J. W. Cho Hou, Mr. J. est & Co., Ld.), Mr. J. W.

the Hon. Mr 7001

British Imperial Council of Commerce, Landon Mr. A. J. Yorke (in Europe).

Indian Tea Cers Committee.—Mr. J. C. Armstrong (Parry & Co.),

Southern India Chamber.

The Southern India Chamber of Commerce has its Registered Office in Madras. The objects of the Chamber are those usual for such bodles, concerning the promotion of trade, especially in the Madras Presidency, and the interests of members. Special objects are stated to be:-

"To maintain a Library of books and publications of commercial interest, so as to diffuse commercial information and knowledge amongst Its members.

" To "To establish Museums of commercial products or organise exhibitions, either on behalf of the Chamber or in co-operation with others."

There are two classes of members, permanent and honorary. The usual conditions as to eligibility for election prevail.

The right of electing two representatives to The right of electing two representatives to the Madras Port Trust was necorded to the Chamber by the Madras Port Trust Amend-ment Act, 1915. Members of the Chamber hold seats in the Madras Legislative Council and in the Madras Corporation, but the and in the Madras Corporation, but the Chamber does not enjoy the right of elections representatives to these bodies.

President-Rao Bahadur P. Theagardyn Chettlar, D.A.

Vice-Presidents-Khan 31. Bahadur Ruddus Badsha Sahib and Dywith Bahadur Govindoss Chathurbhooladoss ... M. R. R. Rao

! and Moulana Abdus Bublian Sahib.

Assl. Secretary-C. Duraiswami Alyangar,

UPPER INDIA CHAMBER.

The Upper India Chamber of Commerce is concerned with trade, commerce and manufactures in the United Provinces and has its registered office at Cawapore. Members are elected by the Committee, subject to confirmation by the next general meeting of the Chamber. Honorary members are elected on the usual qualifications, but can neither serve in the Committee nor vote at meetings of the Chamber. There is no entrance fee for membership, but subscriptions are payable as follows:—A firm, company or association having its place of business in Cawapore, Rs. 200 a year; an individual member, resident or carrying on business in Cawnpore, Rs. 100; Firms or indivi-duals having their places of business or residence outside Camppore pay half the above rates, but the maintenance of a branch office in Campore necessitates payment of full rates.

The affairs and funds of the Chamber are managed by a Committee of ten members, which has power to constitute Local Committees, of from four to seven members each, at trade centres where membership is suffici-ently numerous to justify the step. Such Local

Committees have power to communicate only with the Central Committee.

The Chamber appoints arbitration Tribu-nais for the settlement and adjustment of disputes when invited to do so, members of the Tribunals being selected from a regular printed list of arbitrators.

The Chamber has in the present year 62 members, four honorary members and five affiliated

The following are the officers:-President-The Hon. Mr. L. P. Watson

(Cooper, Allen & Co., Ltd.) Vice-President-Mr. T. D. Eldelston (Begg

Sutherland & Co.).

Members,—Messrs. K. M. Balfour (Allahabad Bank, Ltd.), N. A. S. Bond (E. I. Ry.), T. Smith (Muir Mills Co., Ld.), S. H. Taylor (Eigin Mills Co., Ld.), T. Gavin Jones (Empire Engineering Co.), W. R. Watt (Cawnpor Woollen Mill), W. G. Connor (Allen Bros. & Co. Ltd.), Babu Ram Narain (Budridass Ram Narain) Namin).

Secretary.-Mr. J. G. Ryan. Head Clerk .- Mr. B. N. Ghosal.

and others indirectly connected with the trade! of the province, or who may have rendered distinguished service to the interests represented by the Chamber, may be elected by the Committee, either on their own motion or on the uggestion of two Members as Honorary Memets of the Chamber. Honorary Members are of required to subscribe to the funds of the Juamber.

The Chamber undertakes arbitrations in uddition to its ordinary work. It does not publish any statistical returns.

The following are the Officers, Committee and Representatives on public bodies for the current year :-

Chairman .- The Hon, Mr. E. O. Anderson (Bulloch Bros. & Co., Ld.).

Vice-Chairman .- Sir Arthur Binning, Kt., (Binning & Co.).

Committee.—Messrs. W. Buchanan (Finlay Mr. E. O. Anderson.

Theming & Co.), E. J. Holberton (Bombay Burna Boiler Commission.—Mr. H. H. Gallle Burna Trading Corpn., Ltd.); H. B. (Bulloch Bros. & Co., Ltd.).

Huddleston (Burma Railways), A. R. Finlay (J. A. Begbie & Co.), R. G. Nicoll (Mercauthle Bank of India, Ltd.), J. A. Polson (The Irrawaldy Flotilia Co., Ltd.), J. A. Swan (Steel Brothers & Co., 1A.), G. Whigham (Burma Off Co., Ld.).

Secretary-Mr. C. A. Cultriss.

the Burma Legislative Representative on Council-The Hon'ble Mr. E. O. Anderson.

Representatives on the Rangoon Port Trust Roard-Messrs, D.Robertson, W.Buchanan, J. A. Polson and J. A. Swan.

Representative on the Rangoon Municipal Committee-Mr. G. Whigham,

Fictoria Memorial Park Trastee-The Hon'ble Mr. E. O. Anderson.

Pasteur Institute Committee.-The Hon'ble Mr. E. O. Anderson.

(Bulloch Bros. & Co., Ltd.).

COCANADA.

stablished on 29th October, 1868.

The following are the office-holders of the Cocanada Chamber of Commerce, which has its headquarters at Cocanada, the chief por on the Coromandel Coast, north of Madras:— Messra, B. Eddington (Coromandel Co., Ltd.),

H. (Coroman-A. Chairman; Gardiner Wilson & Co., A. E. Todd (Simson Bros.), M.R.Ry. Rao Bahadur K. Buryanarayanamurty Naidr — Caru and G. M. Lake (1995 & Co.), L. C. Parton (Sluy-Wallace & Co.), R. J. Huntes (Ripley and Co.), E. Flury (Yolkart Bros.), and C. D. Shore (Gordon Ricodroffe & Co.).

Sexetary-Mr. J. A. Muller.

The rules of the Chamber provide "that by the term 'member' be understood a mercantile firm or establishment, or the permanent agency of a mercantile firm or establishment, or a society of merchants carrying on business in Cocanada, or other place in the Districts of Kistna, Godavari, Vizagapatam, and Ganjam, and duly electing according to the Rules of the Committee.

The Cocanada Chamber of Commerce was [Chamber, and that all such be eligible, but only members resident in Cocanada can held office. Members are elected by ballot. The Conmittee, when called upon by disputing members or non-members of the Chamber, give their decision upon all questions of mercantile usage and arbitrate upon any commercial matter referred to them for final judgment. In the former case a fee of Rs. 18 and in the latter a fee of Rs. 82 must accompany the reference.

> The Committee consist of 3 members, including by ballot, the Chairman at the general meeting of January in each year, for a term of 12 months. The entrance fee for each member place of business is in Cocanada is Rs. 50 and for each member whose of business is elsewhere be Rs. 25. subscription for each member whose place of business is in Cocanada is Rs. 120 per annum, and for each member whose place of business is elsewhere be Rs. 60 per annum, payable quarterly in advance.

A weekly slip of current rates of produce freights, and exchange is drawn up by the

CEYLON.

The Ceylon Chamber of Commerce was incorporated in 1895, and has its headquarters at Colombo. All tirms and persons engaged in the general trade of Caylon are admissible as members and every person or firm desirons of joining the Chamber must be proposed by one member, seconded by another and bal-lotted for by the whole Chamber. The affairs of the Chamber are conducted by a Board of Directors consisting of Chairman and Vice-Chairm in and from 5 to 10 members.

The following is the membership of tills Committee at the present time :-

Sir J. Thomson Broom, Kt. (Whittall & Co.) (Chairman); Herbert Bols (Vice-Chairman) Mr. R. S. Philipott (P. & O. S. N. Co.), Mr. H. S. Jeaffreson, Mr. E. H. Lawrence (National Bank), Mr. W. Philips, Mr. E. S. Clark, Mr. W. Frager, Mr. C. S. Burns, Mr. M. J. Cary and Mr. J. Lochore,

Secretary .- Mr. A. Duneum.

It is essential to bear in mind, when dealing putana, and in Bihar and represented in its upwith the people of India, that it is a continent per strata by the Hindustani Brahman and in its rather than a country. Nowhere is the complex lower by the Chamar. Probably the result of the character of Indians more clearly exemplified than in the physical type of its inhabitants. No-one would confuse the main types, such as Gurkins, Pathans, Sikhs, Rasputs, Burmans, Nagas, Tamils, etc., nor does it take long to carry the differentiation much farther. The typical Inhabitants of India-the Drayldians-differ altogether from those of Northern Asia, and more nearly resemble the tribes of Malaya, Sumatra and Madagascar. Whatever may be their origin, it is certain that they have settled in the country for countless ages and that their present physical characteristics have been evolved locally. They have been displaced in the North-West by successive hordes of invaders, including Aryans, Scythians, Pathans and Moghals, and Inthe North-East by Mongoloid tribes allied to those of Burma, which is India only in a modern political sense. Between these foreign elements and the pure Dravidians is borderland where the contiguous races have intermingled.

The people of the Indian Empire are divided by Sir Henry Risley (Caste, Tribe and Race, Indian Census Report, 1901; the Cazetter of India, Ethnology and Caste, Volume I, Chapter 5) into seven main physical types. There would be eight if the Andamese were included, but this tiny group of Negritos may be disregarded.

The Turko-Iranian, represented by the Baloch, Brahui and Afghans of Baluchistan and the North-West Frontier Province, Probably formed by a fusion of Turki and Persian elements, in which the former predominate. Stature above mean; complexion fair; eyes mostly dark, but occasionally grey; hair on face plentiful; head broad; no-o moderately narrow, prominent, and very long. The feature in these people that strikes one most prominently is the portentious length of their noses, and it is probably this pecularity that has given rise to the tradition of the Jewish origin of the Afghans.

The Indo-Aryan occupying the Punjab, Rajputana, and Kashmir, and having as its characteristics members the Rajputs, Khattris, and This type, which is readily distinguishable from the Turko-Iranian, approaches most closely to that ascribed to the traditional Aryan colonists of India. The stature is mostly tall; complexion fair; eyes dark; hair on face plentiful, head long; nose narrow, and pro-minent, but not specially long.

The Statt " Dunet He - comprising the Marand the Coorgs formed by a mixntha of We ture of Scythian and Dravidian elements. type is clearly distinguished from the Turko-Iranian by a lower stature, a greater length of licad, a higher nasal index, a shorter nose, and a lower orbito-nasal index. All of these characters, except perhaps the last, may be due to a varying degree of intermixture with the Dravidians. In the higher groups the amount of crossing seems to have been slight; in the lower the Drayldian elements are more pronounced.

infermixture, in varying proportions, of the Indo-Aryan and Dravidian types. The head-form is long with a tendency to medium; the complexion varies from lightish brown to black; the nose ranges from medium to broad, being always broader than among the Indo-Aryans; the stature is lower than in the latter group, and usually below the average according to the scale. The higher representatives of this type approach the Indo-Aryans, while the lower members are in many respects not very far removed from the Dravidians. The type is essentially a mixed one, yet its characteristics are readily definable, and no one would take even an upper class Hindustani for a pure Indo-Aryan or a Chamar for a genuine Dravidian. The distinctive feature of the type, the character which gives the real cine to its origin and stamps the Aryo-Dravidian as racially different from the Indo-Aryan is to be found in the proportions of the nose.

The Mongolo-Dravidian, or Bengali type of Lower Bengal and Orissa, comprising the Bengal Brahmans and Kayasthas, the Mahomedans of Eastern Bengal, and other groups peculiar to this part of India. Probably a blend of Dravidian and Mongoloid elements, with a strain of Indo-Aryan blood in the higher groups. The head is broad; complexion dark; hair on face usually pientiful; stature medium; medium, with a tendency to broad. This is one of the most distinctive types in India, and its members may be recognised at a glance throughout the wide area where their remarkable aptitude for cierical pursuits has procured them employment. Within its own habitat the type extends to the Himalayas on the north and to Assam on the cast, and probably includes the bulk of the population of Orissa; the western limit coincides approximately with the hilly country of Chota Nagpur and Western Bengal.

The Mongoloid, type of the Himalayas, Nepal, Assam, and Burma, represented by the Kanets of Lahul and Kulu; the Lepchas of Darjeeling and Sikklin; the Limbus, Murmis and Gurungs of Nepal; the Bodo of Assam; and the Burmese. The head is broad; complexion dark, with a yellow tinge; hair on face scanty; stature short or below average; nose fine to broad; face characteristically flat; eyelids often oblique.

The Dravidian type extending from Ceylon to the valley of the Ganges, and pervalling Madras, Hyderabad, the Central Provinces, most of Central India and Chota Nagpur. Its most characteristics representatives are the Panlyans of Malabar and the Santals of Chota Nagpur. Probably the original type of the population of India, now modified to a varying extent by the admixture of Aryan, Scythian, and Mongo-loid elements. In typical specimens the stature dark, approaching black; hair plentiful, with an occasional tendency to curl; eyes dark; head The Aryo-Dravidian or Hindustani, long; nose very broad, sometimes depressed at found in the United Provinces, in parts of Raj- the root, but not so as to make the face appear

The material in this section is almost entirely taken from the Report on the Census of India, 1911, by Mr. E. A. Galt, C.S.I., C.I.E., I.C.S., Fellow of the Boyal Statistical Society .

types, occupies the oldest geological formation in India, the medley of forest-clad ranges, terraced plateau, and undulating plains which stretches roughly speaking, from the Vindhyas to Cape Comorin. On the east and the west of the peninsular area the domain of the Dravidian is conterminous with the Ghats, while further north it reaches on one side to the Aravallis, and on the other to the Rajmahal Hills. Where the original characteristics have been unchanged by contact with Indo-Aryan or Mongoloid people, the type is remarkably uniform and distinctive. Labour is the birthright of the pure Dravidian whether hocing ten in Assam, the Duars, of Ceylon, cutting rice in the swamps of Lastern Bengal or doing scavenger's work in the streets of Calcutta, Rangoon and Singapore, he is recognizable at a glance by his black skin, his squat figure, and the negro-like proportions of his nose. In the upper strata of the vast social deposit which is here treated as Dravidian these typical characteristics tend to thin and disap-pear, but even among them traces of the original stock survive in varying degrees.

. It must, however, be clearly understood that the areas occupied by these various types do not admit of being defined as sharply as they must be shown on an ethnographic map. They melt into each other insensibly; and, although at the close of a day's journey from one ethnic tract to another, an observer whose attention had been directed to the subject would realise

flat. This race, the most primitive of the Indian | clearly enough that the physical characteristics of the people had undergone an appreciable change, he would certainly be unable to say at what particular stage in his progress the transformation had taken place.

Contrasts.-The linguistic survey has distinguished in India about a hundred and thirty indigenous dialects belonging to six distinct families of speech. In the domain of religion, though the bulk of the people call themselves Hindus, there are millions of Mahomedans, Animists, Buddhists, Jains, Sikhs, and Christians. So also in respect of social customs. In the north near relatives are forbidden to marry; but in the south cousin marriage is prescribed and even closer alliances are sometimes permitted. As a rule, female chastity is highly valued, but some communities set little store by it, at any rate prior to marriage, and others make it a rule to dedicate one daughter to a life of religious prostitution. In some parts the women move about freely; in others they are kept secluded. In some parts they wear skirts; in others In some parts again wheat is the trousers. staple food; in others rice, and in others millets of various kinds. All stages of civilisation are found in India. At one extreme are the landholding and professional classes, many of whom are highly educated and refined; at the other various primitive aboriginal tribes such as the head-hunting Nagas of Assam and the leaf-clad savages of the southern hills who subsist on vermin and jungle products.

MAIN STATISTICS OF THE INDIAN EMPIRE.

According to the revised areas adopted in the Census of 1911, the Indian Empire contains 1,802,657 square niles, or some 36,000 more than in 1901. About 23,000 square niles have been added owing to the enumeration for the first time of the Agency tracts attached to the Frontier Province. A 6.500 represent the area of the Sunderbans, or i swampy littoral of the Ganges delta, which was left out of account at previous enumerations. Finally the Frontier State of Manipur has been found to contain about 5,000 square miles more

than the estimate made in 1901.

Population Divisions.—The provinces under British administration comprise 1,093,074 square miles, or 60.6 per cent of the total. The remainder is included in the Native States. The total population is 315,156,396, of which British territory contains 244,207,542, or 77.5 per cent. and the Native States 70,888,854 or 22.3 per cent.

Comparisons with Europe.—These stupendous figures can be grasped only by contrast. The Indian Empire is equal to the whole of Europe. except Russia. Burma is about the same size as Austria-Hungary; Bombay is comparable in point of area with Spain; Madras, the Punjab, Baluchistan, the Central Provinces and Berna and Rajputana are all larger than the British Islands; the United Provinces and Bihar and Orissa than Italy; and Hyderabad and Kashmir than Great Britain excluding Yorkshire.

The population of India exceeds that of Europe without Russia, and is considerably more than three times that of the United States of America. The United Provinces and Bengal, with the

Orissa as France, Bombay as Austria, and the Punjab as Spain and Portugal combined. The population of the Central Provinces and Berar approaches that of Brazil; Hyderabad and Burma have as many inhabitants as Egypt; Central India and Rajputana as Scotland and Ireland combined; and Assam as Belglum.

Density .- In the whole Empire there are on the average 175 persons to the square mile, or much the same as Europe outside Russia. In British territory the number to the square mile is 223 and in the Native States 100; the former figure exceeds by 34 the density ratio in France and the latter is indentical with that in Spain,

There are great local variations in density. In nearly two-thirds of the districts, and States, the number of persons to the square mile is less than 200, and in about a quarter it ranges from 200 to 500. The units with less than 100 persons to the square mile covers two-lifths of the total area, but contains only one-eleventh of the population.

Causes of Density.—The productiveness of the soll is the main factor in determining the density of the Indian people. The most thickly peopled tracts are the level plains where practically every inch of the land is lit for tillage. is notably the case in Bengal and Bihar and the United Provinces East. The next most densely peopled tracts are the low-lying plains along the sea coast in the southern part of the peninsula. In the United Provinces West and the Punjab East the configuration of the surface is equally States attached to them, both have as many East the configuration of the surface is equally inhabitants as the British Islands, Bihar and favourable; the minfall is more scanty and less

GROWTH OF THE INDIAN POPULATION.

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by water from the canals. The natural divisions which contain the coast districts of Orissa and north Madras, with a rainfall of 50 inches, has a relatively low mean density, but this is because it includes on the west a considerable hilly area, while on the east near the sea the ground is swampy and impregnated with salt. In the intermediate strip, between the littoral and the hills, the density is as great as in parts of the lower Gangetic Plain. Want of water is the main explanation of the comparatively sparse less than half that shown in the returns.

regular; but it is supplemented in many parts | population in several more or less level tracts such as Gujarat, Rajputana East and Central India West, and the North-West dry area. In Assam there are extensive tracts of hill and Jungle and sandy stretches in the strath of the Brahmaputra River, where permanent cultivation is out of question. The agricultural returns show that three-quarters of the whole area is cultivable but this simply means that crops of some kind can occasionally be grown. The proportion of the area fit for permanent cultivation must be

TOWNS AND VILLAGES.

statistics includes every municipality; all Civil Lines not included within municipal limits; every cantonment; every other continuous col-lections of houses inhabited by not less than 5,000 persons, which may be treated as a town for census purposes. Only 0.5 per cent. of the population of India are found in towns as defined above, compared with 78.1 per cent. in England and Wales and 45.6 per cent. in Germany. Rather more than half the urban population of India is found in towns containing upwards of 20,000 inhabitants, about one-fifth in towns with from "ten to twenty thousand, and the same proportion in those with from rive to ten thousand; the remainder, about one-fifteenth, live in towns with less than five thousand. The tendency to urban aggregation is most marked in the west of India and least so in the north-cast. proportion of the urban to the total population in the main provinces ranges from 18 per cent. In Bombay to only 3 per cent. In Assam. The urban population of Upper India is much larger than it otherwise would be, because of the numerous old capitals which are found there. In the future the main factors will be the expansion of trade and industrial development.

Sex in Towns .- In respect of the distribution by sex, the urban population in India presents a striking contrast to that of European countries. In Europe the proportion of females is larger in towns than in the general population, but in India it is considerably smaller, and the number of females per thousand males is only 847, compared with 953 in the population as a whole. The reason is that in this country the great majority of the domestic servants, shop hands and factory employes are males. The disproportion is most marked in large trading and industrial centres where the number of immigrants is large. In Calcutta, for example, the foreign-born population contains only 357 foreign-born population e females per thousand males.

Religion in Towns, - Of the Parsis no fewer than six out of every seven are resident in towne; of the Jains, the proportion is nearly one-third; and of the Christians more than one-fifth. There is a marked contrast between these proportions and those for Hindus and Mahomedans who form the bulk of the population. Of the Mahomedans of the Hindus less than

owns. In the case of the rises to one-sixth if we engal, where the majori-

ty of the Mahomedans are the descendants of heat converts. Amongst the Hindus the higher aster have hitherto shown a greater predilection | quarter of its population.

The definition of a town in the Indian cersus for town-life than the lower, but the dispropertion is gradually disappearing; modern industrial developments are attracting the lower castes to towns in ever-increasing numbers.

> Urban and Rural.—The proportion of the urban to the total population has fallen during the decade from 9.9 to 9.5 per cent. The main explanation of this is undoubtedly the fact that plague has been far more prevalent in towns than in rural areas. This scourge has now spread to all parts of the Empire except the east and south. At the time of the census an epidemic was raging in many towns, especially in those of the United Provinces, Central India and the Central Provinces and Berar, and a large number of the regular inhabitants had gone away. In addition, however, to driving people away, plague has been responsible in many towns for a terribly heavy mortality. It is impossible to make any estimate of the direct and indirect effects of plague on the growth of towns, but it is quite certain that they have been enormous.

Urban Tendencies .- We cannot draw any conclusions as to the tendency to urban aggregation from a comparison of the statistics of the present census with those of the previous one when plague was still a new and more or less local visitation, but there can be no doubt that there is a growing tendency for people to congregate in towns of a certain kind. The introduction of machinery is rapidly causing the old cottage industries to be replaced by mills and factories : and these are necessarily located at those places where there are the best facilities for collecting the raw material and distributing the manufac-tured article. The jute industry is practically confined to the banks of the Hooghly near the port of Calcutta, Cotton mills are found chiefly in Western India and woollen and leather factories at Cawapore and Delhi. The increasing trade of the country and the improvements in railway communications also encourage the growth of towns. Not only are the great sea ports attracting an ever-growing population, but various inland towns are benefiting from the same The extent to which modern conditions of trade and industry are causing the growth of towns is obscured not only by plague, which is generally far more prevalent in towns than in rural areas, but also by the decay of old centres of population, which owed their importance to past political and economic conditions. Throughout India there are many former capitals of defunct dynastics whose population is steadily dwindling. During the last ten years, Mandalay, the last capital of the kings of Ava, has lost a

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CITIES.

ne general practice of statisticians is to treat ! cities only those places which have a popuon of more than 100,000. According to this there are in India only 30 cities, with population of 7,075,782, or 2.2 per cent of the population. Here there is an extraordinary difference between the Indian conditions and those of Western countries. In England the cities contain 45 per cent. of the total population, in Germany 21, and in France 14 per cent. But even in these countries the growth of citles is comparatively recent. In 1871 England had only 27 cities with 9.5 million inhabitants and Germany only 8 with 2 millions. There are signs that in India the growth will be more rapid in the future than it has been. The population of cities has risen since 1872 by 64 per cent, and the net increase, comparing like with like, is 43 per cent. The most rapid growth during this period is shown by Rangoon which has trobled its population. Next comes Karachi with an increase of 168 per cent. and then Madura and Howrah with 158 and 113 per cent. respectively. Since 1901, two new places, Jubbulpore and Dacca, have entered the list of cities, while Baroda has disappeared from it. Eighteen cities have gained, and twelve have lost, population. Of the latter, a few like Mandalay are really decadent, but in most, such as Nagpur and Cawnpore, the loss was due wholly to the temporary Influence of plague. The progressive cities are differentiated from those which are decadent by their large immigrant population. In Bombay, Calcutta and Howrah this exceeds 70 per cent. of the total and in Rangoon and Karachittis close on 60 per cent. In Patna, Mandalay and Barellly, on the other hand, it is barely 10 per cent.

Calcutta.-In speaking of Calcutta we may mean Calcutta proper, or the area administered by the Calcutta Municipal Corporation with the port, fort and canals, the population of which is 890,007, or this area plus the suburban muni-cipalities of Cossipur-Chitpore, Manlektola and Garden Racch with 1,04,8307 inhabitants, or last-ity Greater Calcutta, which also includes Howrah, with an aggregate population of 1,222,313. The suburban municipalities differ from Calcutta only in respect of their Municipal Government. From a structural point of view they cannot be distinguished. The buildings are continuous throughout, and there is nothing to show where one municipality begins and the other ends. A striking feature of the statistics is the large number of immigrants. Less than 29 per cent. of the inhabitants of Calcutta proper claim it has as their birthplace. The vast majority are immi-grants, of whom 204,000 come from Bihar and Orissa and 60,000 from the United Provinces. Of the Bengal districts, the largest contributions are those from the 24 Parganas (88,000), : Hooghly (48,000) and Midnapur (29,000). The volume of immigration is equally great in the suburbs and Howrab.

The first regular census of Calcutta proper taken in 1872 showed a population of 633,009. In 1881 there was practically no change, but in 1891 a gain of 11 4 per cent. was recorded. In 1901 here was a further increase of 24.3 per cent., but part of this was due to improved enumer-

per cent. The falling off is due largely to the growing tendency of the inhabitants to make per cent. their home in the suburbs or even further affeld. The suburban municipalities have grown during the decade by 45.3 per cent.

Bombay-which has now a population of 979,445 was a petty town with about ten thouinhabitants when it passed into the possession of the British in 1061. The population was estimated to be 100,000 in 1780, 180,000 in 1814 and 230,000 in 1836. At the first regular census in 1872 it had risen to 644,405, and nineteen years later, in 1891, it was 821,764. In the next decade plague, which first appeared in September 1806, caused a serious set back; and it is estimated that by 1901 this disease had already been responsible for 114,000 deaths. The census of that year showed a decrease of about 6 per cent., but this was not wholly due to deaths. At the time when the census was taken, a virulent epidemic was in progress, and large numbers of the permanent residents had sought safety in flight. A fresh enumeration taken in 1906 by the Health Department of the Mu-nicipality gave a population of 959,537. The number now returned exceeds that of 1901 by 26 per cent. but it is only 2 per cent. more than it was at the time of the local enumera-tion of 1906. It is said that the census of 1911 was taken at a time when many of the immitrants from neighbouring districts had gone to their permanent homes for the Holl holidays, and that many of the cotton mills had closed down temporarily owing to the problibitive price of the raw material. Like other large trading and industrial centres, Bombay is peopled mainly by immigrants; and more than 80 per cent. of its inhabitants were born elsewhere. Most of them come from the neighbouring districts; more than one-fourth of the total number are from Ratnagiri, while four other districts together supply more than a third. There are 30,000 Goanese, most of whom are in domestic service. Of the immigrants from outside the pro-vince, some 50,000, chiefly mill hands, are from the United Provinces, and 12,000 mainly shopkeepers, from Rajputana. Of the immigrants from outside India the largest number (0,000) come from the United Kingdom.

Madras.—Unlike Calcutta and Bombay. Madras, which is handleapped by its distance from the coal-fields, has but few large industries. The indigenous handicrafts are decaying and their place is not being taken by factories of the modern type. Apart from its being the headquarters of the Local Government, Madras owes whatever importance it possesses to its position as a distributing centre. Of its total population (518,660), only one-third are immigrants, and of these only 12 per cent. have come from places beyond the limits of the Madras Presidency. The great majority are natives of the four districts in the immediate vicinity of the city.

The population grew fairly rapidly during the twenty years prior to 1901, but since then it has been almost stationary. There has been ation. At the present census the rate of an increase of about one per cent, in the number present in Calcutta proper has dropped to 5.7 of persons born in the city, but sewer of them

have been commercial within the city limits, is compared with 1001 the net gain due to algorithm and the present demand for labour in Burma, where ages are very high, has attracted many of thouring classes who would otherwise have night their living in Madras.

Hyderabad.—Next to the three Presidency towns, the largest city in India is Hyderabad, the capital of the Nizam's Dominions. Its population is shown in the local Census Report as 50,023. Hyderabad has hitherto made very little industrial progress, and less than a quarter of its population is drawn from outside.

HOUSES AND FAMILIES.

n spite of the joint family system the number of room, not the house. onses corresponds very closely to the number f families in the European sense. The total number of houses is 63.7 million, and there re 64.6 million married females aged 15 and iver. Except amongst the higher castes who

Generally speaking it may be said that the form but a small fraction of the total population abouring classes in India live in one, or at the the joint family system is not nearly so common nost two, single room huts. The home of a well-as is frequently supposed. Where it is in vogue, as is frequently supposed. Where it is in vogue, as is frequently supposed. Where it is in vogue, as is frequently supposed. Where it is in vogue, as is frequently supposed in the towns and disruptive tendency. In the towns and cities, owing to the high rents, rearranged round and open on to a courtyard, the unit for all below the middle class is the rect.

Average population per house 5 .8 1881 5.4 1891 . . 1901 5.4 1911

MOVEMENT OF THE POPULATION.

According to the census returns, the total population of India has increased by 7°1 per cent during the last decade, and by 52 per cent. since 1872, but the real gain since the latter date is very much less than this. Large tracts of country, including the Central India and Rajputana Agencies, Hyderabad and the Punjab States which was emitted from the States, which were omitted from the census returns of 1872, were included in those of 1881. In 1891 the greater part of Upper Burma Kashmir and several smaller units were enumerated for the first time. In 1901 the most important additions were a portion of Upper Burma and the greater part of Baluchistan. In 1011 the Agencies and tribal areas in the North-West Frontier Province, together with a few smaller areas, were included within the scope of the enumeration. The real increase in the ropulation in the last 30 years is estimated at about 50 millions, or 19 per cent. This is less about 50 millions, or 19 per cent. This is less than half the increase which has taken place in the same period amongst the Teutonic nations of Lurope, but it considerably exceeds that of the Latin nations. In France the population has grown by less than 7 per cent. since 1870, but this is because of its exceptionally low birth-rate. In India the birth-rate is far higher than in any European country; and it is the heavy mortality especially amongst infants, which checks the rate of increase.

Famine and Disease .- In addition to the causes which ordinarily govern the movement of the population, India is subject to two special factors-famine and epidemic disease. The decade preceding the census of 1911 was free from widespread famines such as those of the preceding ten years. In 1907 there was a partial failure of the monsoon which was felt over a wide area, extending from Bihar to the Punjab and Bombay, and causing actual famine in the United Provinces and in a few districts elsewhere. Prices ruled high in most years and there was an extension of special crops, such as jute and cotton, which are more profitable to the cultivator than food grains. It was on the whole a period of moderate agricultural prosperity. From the point of view of public health, the eensal period would have been an average one;

Bombay in 1896, it has by March 1901 caused a recorded mortality of half a million. Since then It has continued its ravages, especially in Bombay and Upper India. The mortality from it rose from about a quarter of a million in 1901 to 1°3 millions in 1907. It fell below a quarter of a million in each of the next two years, but in 1910 it exceeded half a million. The total number of deaths from plague during the decade was nearly 6.5 millions of which over one-third occurred in the Punjab and two-fifths in the United Provinces and Bombay, taken together. The disease fortunately has failed to establish itself in Bengal, Assam, and on the East Coast and in the extreme south of the Peninsula. This however is only the recorded mortality; in time of epidemic the reporting agency breaks down and large numbers of death's escapo registration. Plague attacks women more than men, and people in the prime of life more than the young and old. If plague is omitted, and it is assumed that the mortality of the decade would otherwise have remained normal, the population of the census of 1911 would have been greater than it was by at least 6.5 millions. In other words, the population would have increased by 0.3 instead of 7.1 per cent.

General Conclusions.—The most noticeable feature is the continuous rapid growth in Burma. Lower Burma has grown by 135 per cent, since 1872 and the whole Province including Upper Burma, which was annexed in 1880, by 37 per cent. since 1801. In Assam including Manipur the increase since 1872 amounts to 70 and in the Central Provinces and Berar to 47 per cent. In the other main provinces the rate of growth has been much slower. In some provinces, such as Burma, Assam and Bengal there has been continuous progress but others, at some time or another, have sustained a set-back. In the larger provinces at least, the internal variations are also frequently considerable. In Bengal one district has at the present time a smaller population than it had in 1872, while four others have more than doubled their population since that date.

In British territory there has been a gain of but for the ravages of plague. Breaking out in 13.1 per cent, over about nine tenths of the area,

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+50.741

with three quarters of the total population, and aloss of 5°5 per cent. In the remaining one-tenth of the area and one-fourth of the population. The contrast in different parts of the Native States is still more striking. The net increase of 10°3 per cent. Is the outcome of a gain of 14°3 per cent. In four-fifths of the total area and population, coupled with a loss of 6°2 per cent. elsewhere. The relatively greater net increase in the Native States as compared with British territory is explained by the fact that many of the States suffered severely from famine in the previous decade when they sustained a net loss of 5 per cent., while British territory gained 4°7

nor cent. Apart from this, in ordinary circumstances a comparatively high rate of increase is to be expected in the Native States, as they are on the whole, more undeveloped than British territory, and contain a much larger proportion of cultivable waste land. The net increase in India as a whole during the last decade is the resultant of a gain of 10°3 per cent. in an area of 1,517,000 square miles, with a population of 245 millions and a present density of 162 to the square mile, and a loss of 5°6 per cent. in an area of 218,000 square miles with a population of 68 millions and a density of 312 to the square mile.

MIGRATION.

In India there are two currents of migrationminor and major. The chief of the minor movements is the custom, almost universal amongst Hindus, whereby parents seek wives for their sons in a different village from their own. Of the 25.5 million natives of India who were enumerated in a district other than that in which they were born, 16.5 millions, or 62 per cent. were born in a district adjoining that The major in which they were enumerated. currents of migration are governed by economic conditions. The most noticeable movements are the large streams of emigration from Bihar and Orissa, Madras, the United Provinces Rajputana, and of immigration into Bengal, Assam and Burma. Owing to its fertile soil, Bengal is able to support practically the whole of its dense indigenous population by agriculture. It is necessary therefore to man the jute mills by imported labour, as also the tea gardens of Darfiling and Jalpaigurl and to draw the general labour supply from outside. gal the net excess of immigrants over emigrants is close on 1,400,000. Of these about 236,000 are Natives of a district in Bihar and Orissa, or Assum, contiguous to the Bengal district in which they were enumerated. Assam and Burma are sparsely populated and the land available for cultivation being ample, very few of the indigenous inhabitants find it necessary to work for hire. The ten gardens of Assam and the rice mills and oil wells of Burma have to obtain their coolles elsewhere. In Assam 12.5 per cent, and in Burma 5 per cent. of the population are immigrants. On an average 51,000 labourers and dependants go each year to the tea gardens of Assam. In Burna, Madras supplies labourers for the ricemilling, oil and other industries, whilst many coolies flock into the province from Chittagong, chiefly for the rice harvest. The net loss to Dihar and Orissa on account of migration is about 1.5 millions. The United Provinces sustain a net loss of about 800,000 from migration, chiefly in the direction of Bengal. Madras being very backward from an industrial point of view, there is no great local demand for labour. At the same time there is an exceptionally large population of the "untouchable" castes, who have no scruples about seeking their livelihood oversea. provides Ceylon with labour for its plantations, Burma with labour for its industries, and the Federated Malay States with labour for their tubber plantations. The enterprising Marwari traders of Rajputana have penetrated to all parts of India and are to be found in very important bazars throughout Bengal and even in Assam. Bombay is industrially more advanced than

there is a large local supply of labourers, chickly from the southern exist strip called the Konkan. The United Provinces give more than four times as many labourers to Bengal' as to Bombay. As for the migration between British India and Native territory, it involves a loss of 135,000 to the Native States.

Aslatic Immigration.—Of the 504,000 persons born in other Aslatic countries who were resident in India at the time of the census, more than half were natives of Nepal, Of the 92,000 immigrants from Afghanistan all but 11,000 were counterated in Northern India. The rest were cold weather visitors who travel about the country pedding plece-goods and other articles of clothing. These Cabuli pedlars cause great trouble in Bengal by their truculence. The number of Chinese is 80,000. Most of these are found in Burma, but the Chinaman is making his way into Eengal, where he is appreciated as a shoemaker and carpealer. From Arabia come 23,000 immigrants, chefly to Bombay.

Non-Asiatic immigration.-The number of immigrants from countries outside Asia is 140,265. Of these 131,068 come from Europe. The United Kingdom sends 122,919; Germany comes next with only 1,860 and then France with 1,478. As compared with 1901 there is an increase of about 25,000 in the number of immigrants from the United Kingdom. Of the British-born 77,626 were serving in the army as compared with 60,965 at the time of the previous census, when a strong contingent had been sent from India to reinforce the British garrison in South Africa. The rest of the increase is accounted for by the industrial development which has taken place, the extension of railways, and the growing extent to which Englishmen in India marry. The number of females born in the British Islands and enumerated in India has risen during the decade from 14,663 to 19,494. The figures for other European countries do not call for any special comment.

time there is an exceptionally large population of the "untouchable" castes, who have no scrupes about seeking their livelihood oversea. It provides Ceylon with labour for its plantations, Barma with labour for its plantations, Barma with labour for its industries, and the Federated Malay States with labour for their rubber plantations. The enterprising Marward traders of Rajputana have penetrated to all parts of India and are to be found in very important bazars throughout Bengal and even in Assam, Bombay is industrially more advanced than Bengal, but as its soil is iess productive

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1801.	882,305 891,704 891,704 452,518 168,662 118,412 176,240 100,081 100,081 101,048	81,585 110,600 415,030 116,787 168,787 105,100	170,834 273,028 87,423 188,913 110,300 117,014	165,192 161,390 183,050 118,860 100,320 100,600	cktola and Garder of Calcutta. So I, the population o unit, but for the 1
1901.	247,796 776,006 776,006 776,006 188,023 175,889 175,889 175,689 186,599 133,167	59,733 157,504 148,406 100,167 00,533 110,003	202,064 204,040 105,084 183,816 118,120 127,734	134,785 158,320 125,430 122,618 110,306	pore-Chitpur, Mani m an integral part clpalities be added ructurally a single
1911.	800,007 678,449 618,640 118,449 118,749 171,607 171,607 100,834 178,403 178,403 178,403 178,537	108,551 170,006 170,006 100,023 100,021 100,031	228 657 250,798 134,130 138,299 116,227 101,415	136,153 158,856 203,510 126,344 111,808 123,512	opulation of Cossil purposes they for riceffoued Muni- tary Station are st
	CALCUTTA AND FORT * BOYINAT MADRAS AND GANTONAITY Agra and Cantonment Almedabad and Cantonment Amiliabad and Cantonment Amiliar and Cantonment Bangalore Civil and Miliary Station † Bangalore Civil and Miliary Station † Cannone and Cantonment	: ::::::	: ::::::	Pathn Rangoon and Cantonment Rangoon and Cantonment Shinggra and Cantonment Sunst and Cantonment Thehlopoly and Cantonment	* The above figures for Calcutta exclude the population of Cossipore-Chitpur. Manicktola and Garden Reach. These places have a separate Municipal administration, but for all practical purposes they form an integral part of Calcutta. So also does Howrah except that it lies on the opposite bank of the Howrah also be included, it comes to 1,222,313. † Bangalore City and Bangalore Civil and Military Station are structurally α single unit, but for the purpose of the census they have been treated as separate places.

STATISTICS OF RELIGIONS.

			Relia	lon			1	Indla.	British Provinces.	Native States.
INDI	A				•••	•		315,150,296	244,207,542	70.888,85
Hindu	• •	• •	• •	• •	• •		••	217,586,802	103 621,431	53,905,46
Brahman - Arya		••	••	••		• •	••	217,337,013	163,381,380	53,956,56
	• •	••	••	* *	• •	• •	**,	213,445	234,841	8,60-
Brahmo		• •	• •	••	• •	••		5,501	5,210	29.
Sikh -	• •	• •	• •	• •	• •	• •	• • •	3,014,466	2,171,008	842,559
Jain Buddhist		• •	••	• •		••		1,248,182	458.578	789,604
nuduniso	• •	• •	••	• •	• •	• •		10,721,453	10,644,409	77,041
Zoroastrian (Parsi)		• •		• •	••		100,096	86.155	13,941
Musiman	• •	• •	• •	• •	• •	* *	• •	66,647,209	57 423,889	9,223,410
Christian		• •						3,876,203	2,492,284	1,383,910
Je™		• •						20,980		2,456
Animistic Minor Religio	 เกม คท ย์	Paller	on not	mot num	novi *	••	• •	10,295,169	7,318,024	2,047,141
Not enumera				161011	neu			37,101 1,608,556	2,340	34,761 1,608,550

POPULATION ACCORDING TO RELIGION AND EDUCATION (CENSUS OF 1911).

Males.

71 . 11 . 1	_						
Religion	5.		ı	Total Population.	Illiterate.	Literate.	Literate in English.
Hindu Sikh Jain Buddhist Parsi Hinammadan Christian Animistic Minor and Unspecified			**	110,965,731 1,734,773 613,653 5,286 142 51,123 34,700,3653 2,010,724 5,088,241 28,818	07,642,597 1,550,610 324,068 3,161,701 11,128 32,310,609 1,422,154 5,034,408 22,430	11,223,134 184,163 318,585 2,134,381 30,005 2,380,700 538,570, 53,830, 6,388	1,013,596 11,490 13,030 21,767 25,334 170,031 252,591 1,521 2,931
Total Males	••	••	••	160,418,470	143,479,655	16,939,815	- 1,519,201
					Fema	les.	
Hindu Sikh Jain Buddhist Parsi Muhammadan Christian Animistic Minor and Unspecified	••		•••	106,720,714 1,279,667 604,620 5,435,080 48,973 -31,883,812 1,865,472 5,120,303; 29,263	105,005,904 1,262,387 580,500 5,117,748 17,735 31,746,005 1,613,175 5,126,316 26,355	814,810 17,250 24,120 217,339 31,218 137,807 232,295 2,957 2,905	20,658 208 208 209 1,950 8,047 5,049 112,643 74 1,503
Total Temales	• •	••	••	152,996,019	_ 151,396,156	1,000,103	192,024
Total Population)II	••	•••	313,415,389	201,575,811	18,509,575	1.67

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if so felicitously as Sir Edwin Arnold in his " Light of Asia.

Before beginning, and without up end, As space elemal and as surely sure. Is fixed a Power divine, which moves to good.

Only it-lans embure.

It is not marred, nor stay of in any use. All liketh it, the sweet white milk it brioz-To mothers' breasts, it brings the white dinp: too,

Wherewith the young make stings. It slayeth and it saveth, nowed impred Except unto the working out of doom; ... -- Pam

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Its wistlet finnels between The ethical values of Handuism are not slitterent from these of other great religious. Take them it attaches little impertance to the qualities which make for wordly energy, and most importance to self-sacrifice, humility arel. kindliness to all. Only its methods differ. On the whole, however, the Hindu socio-religious scheme, owing to its tendency to make the individual human being a passive instrument in the hands of a Higher Power instead of an active co-operator with it, has favoured stabi-; lity at the expense of progress.

Hindu sects.—Hinduism is made up of many sects and cults. It is usual to speak of Hindulan as it was before Buddhism, as a thigle creed, but this is because the literature that has come down to us is the literature of

thought. In other paces the line of exidation line exem in P. to rise by in their I train was from polytheism to monetheism, but in the lines of over the existence of risal sees, India it now from polythetem in the Light; Even the Veter them does an it, bregging pantheism. Contracting the development of particle of one of several prote which happens ? pannersh. Compacting the development of provides to be always for the Middle blea of God with that of the Middle, in the Pitted with a statest for theory. The Dr. Harold Haffling observes "With the fright provides of sects, however, was Middle three was no God who elsined sole instandardly energined by the betrody-foreway; they went beek to the power which of blod unstally in practice of the provide application of the provide application of the provide application and needs which find went for philosophers recorded three way of existing themselves in prayer and earlier. Following nownly, the vest of knowledge, the way of an extremely remarkable line of themselves fifth and the way of exists. Larry & and that which drives men to worship tools was Historian recorders the value of all these that which drives men to worship gods was Hisdorn recorders the value of all them tiself regarded us the true divine power, three mass, but it differs as to the relative brokens meant originally the magnetic country transfers to be attracted to each. He work word of prayer, but it afterwards come to of the good plate other, Sockarachary, who denote the principle of existence field, so regist and that the superior being was the that we have a transition from the idea of only Rochty at that sit for planning int this motion founds to that of Regord, from prayer verse was Maja see Busines, and that solve to the object addressed in prayer." The Indian tion came from the relication of this test, philosopher can the whole universe transduced did not all call full and service effort the first particular terms of the object to the properties of the object to the first particular transfer of the object to the properties of the object to the first particular transfer of the object to the o call and being perp titally transformed to good in the obense of religion. Raylands, Alechols in the counte process spreading out, before the land, Vallablisticity, who industry from neck, to whom the full sopher, indies and timeless, in more or less degree, reford I fire destrict to whom the tril gold record but of the homerality of the phenomenal volume. If the full states of the homerality of the phenomenal volume, different stages in a creat common process of I del more stress on fault and service than on which the secret was known only to the Supreme knowledge, but they did not decard the just. Deling. No European writer has caught the of knowledge after the it should be to define most exerce of the Hindu philosopher's House here that it has been the great in determined exerce. idea of the suprime, so faithfully, and expressed two of theelers it that the pathet wither has come to mean the fath put of altrin the e-tyles to marked but the publical version conciled in a continued start to provide tributers received and menderints and to idels. It is the great aim of the modern religious reform, provements such as the Arva Samij and the Brahma Simil to resear the path of service, from this sparn as interpretation and to make aftenders would service an integral part of religion. The question of sect, lowever, does not play a very important part in Buchner, Except in Southern and to a much smaller extent, in Western India, the great mass of the Hindus are not rectaries. In Southern India, the Valchnavas and Madhvas will, on no account. Its threads are Love and Lab . Death and worship hidra or si-it a temple delicated in him. The Linguyaths are a Shiva seet found in the Karnatak districts of the Bornbay and Madras Presidencies, and in Mysors, and they have an invincible reputation to the vorship of Vishmi. But these are exception d. Instances, But so far as the bulk of the Illiebts are conection, they resort to the man's tabelia, wheth r it be dedicated to Shiva or Vidinii. The attitude of Hinduism to other religious is that they are cach of them the most soffable with to salvation for the people who are both in them-that they are all several roots which lead to Heaven, for this reason Hindulsm has never been a pro-rivilling religion. This has proved a disadvantage to it face to face with such religious as Malcomedanism and Christianity which not only admit conserts, but are actively engaged in secking them. The proportion of flindus to the total population has steadily diminished during the last forty years, parily owing to conversions to other religious particularly from among the lower classes. Conversions from among members of the higher and literate classes have practically ceased.

Hinduism.—The Hindux number 217,586,892 the sect that came to supersede all others, or 69.4 per cent, of the total population of

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DISTRIBUTION OF THE POPULATION.

							India.	Itritish Provinces.	Native States,
		1					2	3	4
Area in rquare miles		••	••	••	••	••	1,802,657	1,093,074	709,583
Number of Towns at	of VI	Hoges		• •			722,495	538,900	180,696
(a) Towns						'	2,163	1,452	701
(b) Villages	••	• •	• •	• •	* *		720,312	637,657	185,082
Number of Occupied	Hou	1464	• •	••	• •		63,710,179	40,140,017	14,509,232
(a) In Towns					• •		0,037,450	4,400,121	1,628,335
(b) In Villages			• •	• •	• •	* - }	67,672,723	44,731,820	12,910,897
Total Population		• •		••		1	315,156,396	244,267,542	70,888,851
(a) In fourns		• •	• •				20,748,228	22,817,715	6,030,613
(b) In Villages	••	••			• •		285,408,108	221,440,827	63,058,311
Males							101,038,935	121,873,601	36,465,244
Males (a) In Towns		• •					16,108,304	12,525,830	3,582,474
(n) in inwite	••	••	• •	• •	* •	•••	145,230,631	112,317,861	32,892,770
(b) In Villages		• •	••	• •	• •	•••	110,200,001	,,	,,110
Females	••			••			153,817,461	110,303,851	34,423,610
(a) In Towns				• •			13,039,024	10,291,885	3,348,039
(b) In Villages				• •			140,177,537	109,101,966	31,075,571

India. Buddhists and Jains together number 11,000,635. Thus 229,556,627 or about 73 per cent. of the Indian people depend for their splritual sustenance on Hinduism and its offshoots.

The Buddhist population is mostly Burmese, Buddhism having ceased a thousand years ago to count as a leading religion in the land of its birth. Several reasons are usually given to account for the hostility of Hinduism to Buddhism, such as that Buddha dealed the authority of the Vedas and the existence of God and of the human soul. Jainism did all this, and yet Jains to-day occupy a recognised position in the Hindu social system. The real reason for the Hindu hostility to Buddhism was that it influenced and was in its turn influenced by in the later years of its prevalence in India, the alien Mongolian consclousness. Hinduism has always been extremely tolerant of Indigenous heresies, but it is jealous of outside influence. Indian Buddhism, too, had become extremely corrupt and superstitious long before Hinduism re-established Itself as the religion pre-eminently of the Indian people.

Other Indigenous Religions.—Buddhism and Jainium were originally only seets of Hinduism. Jainism even new is not so sharply divided from the latter religion as Buddhism is. Jains are everywhere a recognised section of Hindu Society, and in some parts of the country there has been an increasing tendency on their part to return themselves at the Census as Hindus. The outstanding feature of Jainism is the extreme sanctity in which all forms of life are held. The Jains are generally bankers and traders. Their number at the last Census was 1,218,182, the apparent decline being due to the tendency noted above for Jains to return themselves as Hindus. Buddhism is professed but by few persons in India. The Buddhist population of the Indian Empire is mainly Burmese. Their number is 10,721,453. The founders of Buddhism and Jainism are believed to have been contemporaries, whose date is assigned somewhere in the 5th Century B.O. Sikhism, which is the next important Indigeness. Their ouncer of Sikhism, had its origin had yearly enturies later. The founder of Sikhism,

Ouru Nanak, slowfished in the latter half of the 15th Century of the Christian era. Nanak's teaching amounted to nothing more than pure Theism. He taught that there is only one true (lod, he condemned idelatry, proclaimed the futility of pligrimages and rites and ceremonics, and declared that the path to ralvation lies through good deeds combined with devotion to the Supreme Being. He preached the brotherhood of men, Sikhism continued to exist as a pacific cult till about the end of the seventeenth century, when the persecutions of Aurangzeb had the effect of converting it into a militant creed. This momentous change was accomplished under the direction of Gurn was accompanied under the direction of third flowind, the tenth and last of the Gurns; "I shall send a sparrow," he once exclaimed and "lot the imperial falcous will fly before it." On his death-bod, he exhorted his followers to regard the Granth, the sacred book of the Sikhs, as their Gurn, to look upon it as the person of the living Gurn. After his death, Sikhism passed through a period of decepted clover, but it soon reconstructed and in 175% gloom, but it soon recovered and in 1758 the Sikhs entered Lahore in triumph. The teachings of Guru Nanak have profoundly affected Hindu thought and life in the Punjab, though the number of persons professing the Sikh religion is only 3,014,406 according to the 1911 Census. This represents an increase of over 40 per cent. since 1901. Two other religious 40 per cent, since 1991. Two other religious movements, off-shoots of Hinduism, remain to be mentioned, namely, the Brahme-Samaj and the Arya-Samaj. Both of them are less than one hundred years old. The founder of the former was Raja Ram Mohan Roy, and of the latter. Swami Daymand Saraswati. The Brahmo-Samaj does not believe in an infallible scripture, while the Arya-Samaj accepts the Vedas as Divinely revealed. Both the movements are opposed to idolatry and favour social reform. The Brahmo movement, appealing as it does to the cultured intellect, has not been making as much progress as the Arya-Samaj. The number of persons professing each of these creeds is 5,504 and 243,445 respectively. The stronghold of the Arya-Samaj is the Punjab, that of the Brahmo-Samaj, Bengal,

Non-Indian Religions.

Minhomedanism.—Of non-Indian religions, that is, of religious which had their origin outside India the religion which has the largest number of followers in this country is Minhomedanism. One hundred years before the Mussulmans obtained a foothold in Sind by right of conquest, they were settled in Cochin at raders and missionaries. The author of Cochin Tribes and Castes refers to a tradition that in the 7th Century, a Mahomedan merchant named Malak Medina, accompanied by some priests, had settled in or near Mangalore. The Kollam era of Malabar dates, according to popular tradition, from the departure of Cheruman Perumal, the last of the Perumal King, to Arabia, on his conversion to Islam. The date of the commencement of the era is the 25th August 825 A.D. For about twelve Centuries, Islam has existed in India side by side with Hinduism. During that period it has been greatly influenced by Hindu Ideas and Institutions. Moreover, the Indian converts to Mahomedanism have to a large extent retained

the customs and beliefs of Mindulam. writer of the article on religions of India in the new edition of the Imperial Gazetteer in India: "If it has gained observes of Islam in India: some converts from Hindulam it has borrowed from it many of those practices which distinguish it from the original faith of Arabia. degrees the fervid enthusiasm of the early raiders was softened down; the two religious learned to live side by side; and if the Mahomedan of the later days could never concent his contempt for the faith of his 'pagan' neighbours, he came to understand that it could not be destroyed by persecution. From the Hindus Islam derived much of its demonology, the belief in witcheraft, and the veneration of departed Pirs or Saints. The village Musulman of the present day employs the Hindu astrologer to fix a lucky day for a marriage, or will pray to the village god to grant a son to his wife. This is the more natural, because conversion to Islam, whenever it does occur, is largely from the lower castes." Mahomedanism has reside leave to a the first of every the first of the fir down to the at histo to Inthe The Mose our property of the line of section of the things of the things of the property of the propert I Wester the Colors and Stort & C. Worse no tira marco North ter, Radio of his the Import Mountains data m. ale it 25 to l'home.

thristingity. It fire Cal firsts has an or here here y then in han this me hadden, and the first the transfer and the first time precisions are set yield to the introduction of the first time of the statistical time of the statistical time. the Original Chutch in Mainter in the year A.D. Are armitral to the Aportly 51, Thomas, a by lot at Crands one or Monte, consented ny Leatenine 66.1 athers, entalmot two distriction and also founded even churches, In Travaluers at I the blo, and the resenth South Mather (Co-bin Castes and Tribes, I. H. Chapter XVI, p. 459). The history of man. Catholichta in India dates from the inting of the sixteenth Centery. The first subsequent photon was established two conteries later by the Leitherans who started their noth in Transpolar in South In its under Panish protection. The Christian population, according to the 1s of Ceners, numbers 4,876,201. Nearly 24 millions are inhabitants of the Madras Problem's and the Native States connected with it. lither and Bombay have each over Descera Curt- Land.

Zoronstrianism -This pilipion was brought or breight back to India in 717 A.D. by Papie who, flering from p escention at the hands of the Ma sulman conquerors of their native land, arrived at the little port of Sanjan, rixty miles north of Bombay in that year. According to the Indian antiquation scholar, the late Bajen-dralal Mitra, the ancestors of the Hindus and Parsis dwelt together in the Punjab, when a religious schism led to the latter retracing their steps to Penia. This theory derives probability from the names of the beneficent, and maletic defties referred to in the Hindu and Parti-

plate and the two fattle, by suffer Mr. Course to his effect on the Religious of India in the Ir great freedoces. "Out to the Aresta the esti apitifonte ktoren po Davan finoleta ficiolan but), a term which the Indo-Aryans applied, in the form It-va, to the spirits of light. By a shown inversion. Asura, the name of the role in the Hit Veda, suffered demadation and at a latter date was applied to call splitte; Cut in Iran, Abura was con istently applied to the fit his sense to the delty, especially as Albert Marila, the wise, to the Supreme Ciel." The Parts have two costs. The principal difference between them appears to be that the hely days of the one precide those of the other by about a month. The number of Parsis, according to the fat Census, is 100,000. The majority of the Parch live in Bombay.

Jews,-The Benf-ferael at Rolaba, Dumbry and the Jens at Cochin are directed dants of aurient Colonies. The Kolaba Colony dates back to the sixth century, and the Cochin Jouen to the second entury A.D. Both Jouen colonics recomize a white and black section, the latter being those who have more completely coolered with the native population. The Jews numbered 20,050 at the

Consust of 1911.

Animists,-Since the Census of an attempt hat been made to enumerate thu an attempt has been have to communicate the "Animilia" repeately from the Hindus, 10,225,163 persons are classed as Animilia, according to the last Census. The difference between Animi-m and Anthropomorphism has been stated by Professor Westermark, to be that, while the animist worships inanimate objects as gols. Authropomorphism consists in the norship of such objects as representatives and reflection of the Deity. As a subtle distinction of this kind is not within the group of the average enumerator, the category of Animists in the Crusus Schedules is largely conjectural. Mr. Grooke in the Imperial Greeteer observes "Such a classification is of no practical value, simply because it learners the fact that the fundamental religion of the majority of the people-Hindu, Buddhist, or even Musulman is mainly Animistic. The peacant may nominally worship the greater gold; but where trouble comes in the shape of disease, drought, or famine, it is from the older gods that he seeks relief."

SOCIAL INSTITUTIONS.

Uniformity of Indian Social Life .-Though India is a land of many religious and though each religious community har, as a rule, lived apart from the other communities for centuries, still there is a considerable uniformity in the arrangements and institutions of their social life. The social system of the lindus is the type to which all other communities domiciled in the country have hitherto tended to conform. To a large extent, this uniformity of social arrangements is clearly due to the fact that, amongst the Mahomedans and Indian Christians, for instance, the con-verts from Hinduism continued to retain their old ideas in regard to rocal conduct. To a smaller extent, the motive which influenced them to conform to Hindu social ideal has been the convenience thereby caused in bust-

Thus, we find, there is scarcely any community in India which has not been more or less infected by the caste spirit. The Jews, the Parsis, the Christians, and even the Mahomedans have been influenced by it. Other Hindu social institutions and customs which have exerted a similar influence are the joint family system, the custom of child marriages, and of enforced widowhood, and the feeling that contact with persons engaged in certain occupasimilarity of the social institutions of the several Indian communities, a description of the Hindu social system which is the great prototype of them all, will give a general idea of the social like of the Indian population as a whole. It should, however, be mentioned here that the social discount of the state of th been the convenience thereby caused in business for the convenience thereby caused in business intercourse with their Hindu neighbours. communal consciousness, efforts have been made by many of the Indian communities to which reference is made in the foregoing to discard whatever is in disaccord with the original simplicity of their respective failing. But this movement has as yet touched no more than the highly educated fringe, and even among the latter, there are thoughtful men who district "revivals" as substitutes for reform.

rocia l Caste.-The most conspicuous Institution of India is Caste. Caste is based on birth. The effect of caste is to divide society into a number of vertical sections, and not as in modern countries, into horizontal sections. The economic and cultural differences among the members of each caste are great. The millionaire and the pauper, the scholar and the illiterate of one easte, form a social unit. rich man of one caste must seek a husband for his daughter among the poor of his caste, if he cannot find one of a corresponding position in life. He can on no account think of marrying her to a young man of another caste, though as regards culture and social position, he may be a most desirable match. Thus, each caste is, within itself, a democracy in which the poor and the lowly have always the upper hand over the rich and the high-placed. In this way, the system of caste has, in the past, served as a substitute for State relief of the poor by means of special laws and institutions. To some extent, this is the case even now, but the economic pressure of these days, and the In-fluence of Western clucation, are profoundly modifying the conception of caste. The growth of the English-clucated class on the one hand, and of the modern industrial and commercial class of Indians, on the other with common aspirations and interests, is a factor calculated to undermine the importance of caste. Aldoubt, linger for many years longer, it is bound ultimately to collapse before the intellectual and economic influences which are moulding modern India. The question how caste originated has been discursed by several learned Orientalists, but the latest and most authoritative opinion is that its rise and growth were due to several causes, the principal of them being differences of race and occupation. The four original castes of the Hindus have multiplied to nearly two thousand, owing to the dissiparous tendencies of Hindu social life. Some large castes consist of many thousands of families, while others, notably in Gujarat, comprise scarcely a hundred houses. Among Indian Mahomedans, there are several com-munities which are virtually castes, though they are not so rigidly closed as Hindu castes, Indian Christian converts, in some parts of the country, insist on maintaining the distinctions of their original castes, and in a recent case, one caste of Indian Christians contested, in a Court of Law, a ruling of their Bishop disallowing the exclusive use of a part of their church to members of that easte. The Parsis are practically a caste in themselves. The observations regarding casto apply more or less to the institution of the joint family of which really the former is an extension. This institution is rapidly breaking-up, though the rigidity of the Hindu Law of succession operates wholly in its favour.

The Social Reform Movement.—The years agreed reform movement among the Hindus portance.

paragraph, had its origin in efforts made by the (tovernment of Iudia, with the co-operation and support of enlightened Hindus, in the early part of the fast century to put down the practice of rati, that is, burning the willow along with her dead husband. This cruel practice, which prevailed particularly among the high caste. Hindus in Bengal, was eventually suppressed by legislation. But the discussions which ensued in connection with sali question led to the exposure of the hard lot of Hindu widows as a class. Remarriage was prohibited and as child marriages were common, several young girls were condemned to lead a life of celibrey on the death of their husbands. This led to immorality and infanticide by young widows, who were anxious to hide their shame was not infrequent. Led by the Pandit Ishwar Chandra Vidyasagara, a very learned Sanskrit scholar, a movement began which had for its object the removal of the ban on the remarriage of Hindu widows. The Pandit was able prove from the Hindu religious books, that the remarriage of widows had the sanction of antiquity. But it was necessary, in order to establish the validity of the remarriage of Hindu widows beyond doubt, to have a law passed by the Legislative Council of the Governor-General of India. The Paudit and his followers memorialised Government. There was strong opposition from the orthodox masses, but the Government of the day were convinced that justice was on the side of the reformers, and the Hindu Widow Remarriage Act was passed. The controversy on the question of the remarriage of widows led to other consequences. It was felt that the age at which girls were married was absurdly low, and that child marriages were at the root of many social cylls, It was also realised that the general illiteracy of Indian women was the greatest obstacle in the way of reforming social customs, and that education of women should be the first plank in the social reform platform. The carliest social reformers in India were the Brahmo Samajists who discarded Idolatry and caste. Other reformers since then have endeavoured to propagato ideas of social reform entirely on a secular basis. The Indian Na-tional Social Conference is their principal entirely on a sectuar 1983; The Indian Na-tional Social Conference is their principal organisation, and it is supported by Provin-cial and District Conferences and Associations, Social reform ideas have made considerable headway during the last twenty-five years. Widow marriages are of weekly occurrence in some provinces. The restrictions of caste as to inter-dining and sea-voyage have lost much of their force. The age at which girls are married is steadily, if slowly, rising. The education of girls is making rapid progress. An increasing number of them go to high Schools and Colleges every year. But the most significant testimony to the spread of social reform ideas in the country is the remarkable diminution in the volume and weight of the opposition to them. The number of journals devoted to the social reform cause is increasing, and some of the newspapers which had made themselves consplctions by their virulent opposition to social reform twenty years ago, now recognise its utility and lin-

SEX.

In It has a set of the properties of female of the county but a time about the two platfin 153 for the left. Historica filling jeth 153 for the left. Historica for the filling of the little filling in wrote the simples of fer also per thouse I terter various to on 1 the last land, and 1 the in heldent out that a few holls in Historia. It is dispurity the Chief Communitifiers magned thirt if a reflecterity blich in ortably among the star man wentered to provide the feet flat difference exists, they be removed the the cases of this chartest adjust a factor of the chartest and the content of the conte eatte of In Larrye, two and rith are equally well ear of fee, Consequently, as fone are gave cute heavily more stricted than girls, by the time este excepted to reached, a litable of extlusive the altra typicatestated the excess of males and It should run spalequality between the two to which they are expected in their daily assent to which they are expected in their daily assent. tions; hard took, expound in all weathers and accordents of serious linds counting to make their the anderstion of lifely a than that of women, who are for the most part encaped in dome the duties or o supationers a lighter nature. Hence the amportion of forantes steadily time. In India, the comultime are alterether alfferent, bons are expectly longed for, while daughters are not wanted. This fiching takes everywhere, but it i the enumeration,

and execute in intensity. If it effended rung - te equipatte such as the blater Rainut chees, where began ame have to be paid to obtain a burton tof entratte status and the cost of the e mile erremony is exceeded and thos the It a Patram who dear ite we sten and hold in deristing the father of daughters. Sometimes the prepi be escalust daughters is no etrong that alvertion land offed to when the midelife proffit . the Lith of a glif, Lemerly, female lufants were frequently tilled as even as they were form, and even rose they are very commonly neglected to n greater in to vextent. The plantage which nature gives to girls is thus neutralised by the treatment he soled to them by their patents. To make matters worse, they ar clieb in mittian at a very early and, and reliabilition is any long before they are playically lift for it. In the exite of early child-bearing much be added institut mitratere; and the emalm dresult to an execute moutably among the country mothers. In India almost every nomin has to face there densers. Lastly, among to the lover element, who form the bulk of the population, the women often have to vort, as hard an and sometimes hapter than, the men, and they are thus her favourably altrated in respect of their escriptions than their sisters in Europe." It is but fair to cay that this conclusion has been challenged by many folian writers, who ettels bute far greater importance than the Chief Conver Officer to the omission of females at

MARRIAGE.

Althorph recognised in some backward parts, redyandry is now rare in India. With orthorox Hindin marriers is a religious encranent which cannot be reached. The Mahomedans allow a man to divorce his wife without any special reacon, but he then becomes liable to pay her dower. The permission is seldom acted upon. The Buddheis of lumna regard marriage merly as a civil contract, and either ride can annul it. The Hindin law places no restriction on the number of wives a man may have; but most castes object to their members having more than one wile, except for special reasons. A Mahomedan may have four wives, but he also in practice is generally monogamous.

Marriage Statistics.- In the population of ages and religions, about half the males and ones third of the females are unmarried : 46 per cent. of the males and 48 of the females are married, and 5 and 17 per cent, respectively are widowed. A reference to the agestatistics shows that the great majority of the unmarried of both sexes are very young children, three-quarters of the bachelors being under 15 years of age, while a contential larger proportion of the spinsters are under 10; only one bachelor in 21 is over 30, and only one spinster in 14 is over 15. At the higher ages practically no one is left unmarried, except persons suffering from some infirmity or disfigurement, beggars, prostitutes, concubines, religious devoters and mendicants and a few members of certain hypergamous groups who have been unable to effect alliances of the kind which alone are permitted to them by the rules of their community. It is the persons of the above class i

ers wan contribute the 1 per cent, of the males over 40, and the 1 per cent, of the females over 30 who are not, and never have been, marriel.

Marriage Universal,—This universality of marriage constitutes one of the most striking differences between the social practices of India and those of Western Lurope. It has often been explained on the ground that, with the Hindus, marriage is a religious necessity. Every man must marry in order to beget a son who will perform his funeral rites and rescue his soul from hell. In the case of a girl it is incumbent on the parents to give her in marriage before sho reaches the are of puberty. Failure to do so is punished with social ostracism in this world and hell fire in the next. But it is not only with the Hindus that marriage is practically universal; it is almost equally so with the Mahomedans, Animists and Buddhists.

Enrly Marriage.—Another atriking feature of the Indian statistics as compared with those of Western Lurope is the early age at which marriage takes place. According to M. Sundbarg's table showing the average distribution by age and civil condition of the people of Western Europe according to the censuses taken about the year 1880, of the population below the age of 20, only one male in 2,117 is married and one female in 152. In India on the other hand, 10 per cent. of the male, and 27 per cent. of the innale, and 27 per cent. of the innale, and commercial from the other hand, 10 per cent. of the male, and 27 per cent. of the male, and 27 per cent. of the innale for married, and of those aged 5 to 10, 4 per cent. are married, and of those aged 10 to

15, 13 per cent. At '15-20' the proportion rises to 32, and '20-30' to 60 per cent. Of the females under 5, one in 72 is married, of those between 5 and 10, one in ten, between 10 and 15, more than two in five, and between 15 and 20, four in five. In the whole of India there are 21 million wilves under 10, and 0 million under 15 years of age. The Hindu law books inculcate marriage at a very early age, while many of the aboriginal tribes do not give their girls in wedlock until after they have attained puberty.

Widowhood.—It is only when we come to a consideration of the widowed that we find a state of things peculiarly Indian and one that seems to be derived from the prescriptions of the Hindu law-givers. The proportion of widowers (5 per cent. of the total male population) does not differ greatly from that in other countries, but that of the widows is extraordinarily large, being no less than 17 per cent. of the total number of females, against only 9 per cent. In Western Europe. When we consider their distribution by age, the difference becomes more still striking, for while in western Europe only 7 per cent. of the widows are less than 40 years old, in India 28 per cent. are below this age, and 1.3 per cent. (the actual number exceeds a third of a million) are under 15, an age at which in Europe no one is even married.

The large number of vidows in India is due partly to the early age at which girls are given in marriage, and partly to the disparity which often exists between the ages of husband and wife, but most of all to the prejudice against the re-marriage of widows. Many castes, especially the higher ones, forbid it altogether, and even where it is not absolutely prohibited, it is often unpopular. Although widow marriage is permitted by their religion, and the Prophet himself married widow, the Mahomedans of India share the prejudice to some extent. How the re-marriage of widows first came to be objected to, it is impossible to say, but it seems highly probable that the interdiction originated amongst the Aryan Hindus, that it was confined at first to the higher castes, and that it has spread from them downwards.

Infant Marriage.—It is difficult to draw from the statistics any definite conclusion as to whether infant marriage is becoming more or less common, but so far as they go, they point to a slight diminution of the practice. The figures for 1001 were abnormal owing to the famines of 1897 and 1900, and it is safer to take the year 1891 as the basis of comparison. There are now 18 Hindu girls per mille who are married at the ago of '0-5' as compared with only 16 at that time, but at the age '5-10' the proportion has fallen from 140 to 132 and at '10-15' from 542 to 488. Amongst Mahomedans the proportion at the first mentioned age-period has fallen from 7 to 5, at the second from 83 to 65 and at the third from 474 to 393.

The practice has been denounced by many social reformers, since Mr. Malabari opened the campaign a quarter of a century ago; and the Social Conference which holds its meetings annually in connection with the National Congress has made the abolition of child marriage one of the leading planks in its platform. It is, as we have seen, strongly discouraged by the Brahmos in Bengal and the Aryas in Northern India. The more callightened members of the higher castes who do not allow widows to re-marry are beginning to realise how wrong it is to expose their daughters to the risk of lifelong widowhood, and a feeling against infant marriage is thus springing up amongst them.

In two Native States action has been taken. In Mysore an Act has been passed forbidding the marriage of girls under eight altogether, and that of girls under fourteen, with men over fifty years of age. The object of the latter provision is to prevent these unequal marriages of elderly widowers with very young girls which are popularly believed to be so disastrons to the health of the latter, and which in any case must result in a large proportion of them leading a long life of enforced widowhood. The Gaekwar of Baroda, the ploneer of so much advanced legislation, has gone further. He passed for his State in 1904, in the face of a good deal of popular opposition, an "Infant Marriage Prevention Act", which forbids absolutely the vention Act", which forbids absolutely the marriage of all girls below the age of nine and allows that of girls below the age of twelve and of boys below the age of sixteen, only if the parents first obtain the consent of a tribunal consisting of the local Sub-Judge and three assessors of the petitioner's caste. Consent is not supposed to be given except on special grounds, which are specified in the Act.

Widow re-marriage.—The prohibition of widow marriage is a badge of respectability. Castes do not allow it rank higher on that account in social estimation. There is a strong tendency amongst the lower Hindu castes to prohibit, or at least, to discountenance, At the other end of the marriage of widows. social structure there is a movement in the opposite direction. Many social reformers have invelghed against the condemnation of virgin widows to perpetual widowhood, and have pointed out that the custom is a modern innovation which was unknown in Vedic times. In many provinces recently there have been cases in which such widows have been given in marriage a second time, not only amongst Brahmos and Aryas, who naturally lead the way, but also amongst orthodox Hindus. A number of such marriages have taken place amongst the Bhatlas of the Bombay Presidency. It is said that in the United Provinces considerably more than a hundred widows have been re-married in the last ten years. The actual results no doubt are small so far, but the first step has been taken and the most violent of the opposition has perhaps been overcome.

EDUCATION.

The general education policy of the Government of India, and its results, are discussed in a special article on Education (q,v). But we may conveniently here indicate some of the education tendencies revealed in the census returns.

Of the total population of India, only 59 persons

per mille are literate in the sense of being able to write a letter to a friend and to read his reply. The number who can decipher the pages of a printed book with more or less difficulty is no doubt much larger. Throughout India there are many Hindus who though unable to write can

drone out at least the more familiar parts of the Mahabharata or Ramayana to their neighbours, who feel that it is meritorious to listen to the recital of the sacred texts, even though they, and possibly the reader also, may not always fully understand the meaning. Similarly there are many Mahomedans, especially in Northern India, who can read the Koran, though they cannot write a word. Of this minor form of literacy the census takes no count. The number of persons who are literate in the sense in which the term was used at the present census is divided very unequally between the two sexes; of the total male population, 100 per mille are able to read and write, and of the female only 10. In other words there is only one literate female to every eleven males, If we leave out of account children under-15 years of age, the number of literate females per mille is 140, and that of literate females 12.

Education by Provinces.—Thanks to the free instruction imparted in the monasteries and the absence of the pardah system which hampers the cducation of females in other parts of India. Burma easily holds the first place in respect of literacy. In the whole population 222 persons per mille are literate and the proportion rises to 314 amongst persons over 15 years of age. In every thousand persons of each sex, 376 males and 01 females are able to read and write. Of the other main British provinces, Bengal and Madras come next with 77 and 75 literate persons per mille respectively. Bombay follows closely on their heels. Then after a long interval, come Assam, Bihar and Orissa and the Punjab. At the bottom of the list are the United Provinces and the Central Provinces and Berar, with 34 and 33 literate persons per mille respectively. Differences similar to those noticed above sometimes have their counterpart within provincial boundaries. Thus in Bihar and Orissa, the Orissa natural division has 64 literate persons per mille and the Central Provinces and Berar, the proportion ranges from only 6 per mille in the Chota Kagpur States to 54 in the Nerbudda Valley.

Native States.—Education is more widely diffused in British provinces than in the Native States, which, taken as a whole, have only 70 males and 8 females per mille who are literate, as compared with 113 and 11 in British territory. The three Native States of Cochin, Travancore and Baroda, however, take rank above all British provinces except Burma, wille in respect of female education Cochin divides with Burma the honours of first place. The Kashmir State where only 21 persons per mille can read and write, is in this respect the most backward part of India.

By Religion.—Of the different religious communities excluding the Brahmos and Aryas whose numbers are insignificant, the Parsis easily bear the paim in respect of education. Of their total number 711 per mille are literate, and the proportion rises to 831, if persons under 15 years of age are left out of account. Of the males nearly two-thirds. Amongst those over 15 years of age only 8 per cent. of the males and 26 per cent, of the females are unable to read and write. The Jains, who are mostly traders, come next, but they have only two literate persons to every five amongst the Parsis. Half the

males are able to read and write, but only 4 per cent, of the females. It is noticeable, however, that whereas the proportion of literate males is only slightly greater than it was at the commencement of the decade, that of literate females has doubled. The Buddhists follow closely on the Jains, with one person in four able to read and write. Here also four able to read and write. Here also we see the phenomenon of a practically unchanged proportion of literate males (40 per cent.) coupled with a large increase in that of literate females, which is now 6 per cent. compared with 4 per cent, in 1901. The Christians (22 per cent. literate) are almost on a part with the Buddhists, but in their case the inequality between the position of the two saxes, is much smaller, the proportion of literate females. is much smaller, the proportion of literate females being nearly half that of males. In order to ascertain how far the high position of Christians is due to the inclusion of Europeans and Anglo-Indians, the figures for Indian Christians have been worked out separately. The result is some-what surprising; for although the Indian converts to Christianity are recruited mainly from the aboriginal tribes and the lowest Hindu castes, who are almost wholly illiterate, they have, in proportion to their numbers, three times as many literate persons as the Hindus and more many attento persons as the minus and more than four times as many as the Mahomedans. One Indian Christian in six is able to read and write; for males the proportion is one in four; and for females one in ten. The influence of Christianity on education is strictural tilestrated by the flowers for the average. inducence of curistianity on curcation is sur-kingly illustrated by the figures for the province of Bihar and Orissa, where the proportion of Indian Christians who are literate is 76-per mille, compared with only 5 per mille amongst their animistic congeners. It has to be remembered, moreover, that many of the Indian Christians had already passed the schoolgoing age at the time of their conversion; the proportion who are able to read and write must be far higher amongst those who were brought up as Christians.

The Sikha come next in order of merit, with one literate person in every fifteen; for males the ratio is one in ten and for females one in seventy. Here again, while the proportion for males shows only a slight improvement, that for females has doubled during the decade. The Hindus lave almost as large a proportion of literate males per mille (101) as the Sikha, but fewer literate females (8). The Mahomedans with only 60 and 4 per mille respectively, stand at the bottom of the list, except for the Animistic tribes of whom only 11 males and 1 female in a thousand of each sex are able to read and write. The low position of the Mahomedans is due largely to the fact that they are found chiefly in the northwest of India, where all classes are backward in respect of education, and in Lastern Bengal where they consist mainly of local converts from a depressed class. In the United Provinces, Madras and the Central Provinces and Berar they stand above or on an equality with the Hindus and the same is the case in Bombay excluding Sind. In Sind the Mahomedan population is exceptionally illiterate, but in the rest of the Presidency it consists largely of traders, and education is much more widely diffured amongst them than amongst Hindus. The figures for Hindus again are a general average for all castes, high and low. It will be seen further on that some of the higher Hindu caster

are better educated than the Buddhists while others are even less so than the Animists.

Increase of Literacy.—The total number of literate persons has risen during the decade from 15.7 to 18.6 millions or by 18 per cent. number of literate males has lucreated by 15 and that of literate females by 61 per cent. The proportion who are literate per thousand males has risen from 98 to 106 and the corresponding proportion for females from 7 to 10. If persons under 15 years of age be excluded, the proportions are 138 and 149 for male and 8 and 13 for females. The great improvement in the proportion of literate females is most encouraging. It is true that too much stress should not be laid on this when the actual number is still so small, but, on the other hand, it must be remembered that the rate of increase was equally great in the previous decade, so that it has now been continuous for twenty years. The total number of females over 15 years of age who can read and write is now a million and a quarter compared with less than half a million twenty years ago.

Progress.—Before leaving these statistics of schools and scholars we may glance briefly at the progress which they show is being made. The total number of scholars in all kinds of educational institutions in 1891 was only 3.7 millions. In 1991 it had risen to 4.4, and in 1911 to 6.3 millions. 17.7 per cent. of the population of school-going age were at school in 1912 as

compared with 14.8 per cent. in 1907. tween 1891 and 1911 the number of students in w condary relocate and Arts Colleges has doubled, and the number to primary schools has increased by 67 per cents, the proportion tanging from 59 per cent. In Bombay to 2011 per cent. In the United Provinces. Excluding Madray, where a school hual examination has recently takes the place of the Matriculation, or Entrance examination of the University, the number of persons passing that examination has risen from 4,070 in 1691 to 10,312 in 1911. Including Madras the number who passed the Intermediate examination in Arts or Science has risen during the same period from 2,055 to 5,111, and that of those who obtained a degree in Arts, Science, Medicine or Law from 1,437 to 5,373. The general conclusion appears to be that, while the general rate of progress is far greater than would appear from a comparison of the census returns of 1901 and 1911, it is most marked in respect of secondary education.

There was a continuous fall, both in the number and the proportion of persons afflicted from 1881 to 1901; and this has now been followed by a move in the other direction. Though the proportion is smaller the number of the intended and the deaf-unites is now about the same as it was thirty years ago. The number of is personal blind however is less by about a sixth than it then was.

Infirmities.

The total number of pursons suffering from each infirmity at each of the last four ecasuses is shown in the following table:—

							Number	afflicted,	*
	โกกิเ	milty.						- ,	
						1911	1901	1891	1881
		-			-			1	
Itisane		••		••	• •	81,006	66,205	74,279	81,132
Deaf-mutes						109,801	153,163	100,801	197,215
Dlind		• •			••	443,653	354,104	458,803	86 522,744
Lepers		••	••	••	••	142 109,094 35	97,340 33	167 126,244 46	134,665 57
			T	otal -	••	833,644 267	670,817 228	836,232 315	937,063 407

Note.—The figures in heavier type represent the proportion per 100,000 of the population.

Insanity.—In respect of the prevalence of insanity, India compares very favourably with Luropean countries. According to the latest returns, the proportion of persons thus afflicted in England and Wales is 304 per hundred thousand of the population, or fourteen times the proportion in India. This may be due partly to the fact that the English statistics include the weak-minded as well as those who are actively insane, and to the greater completeness of the return in a country where the majority of the mentally afflicted are confined in asylums, but the main reason no doubt 1s to be found in the comparatively tranquil life of the native of India. It is well known that insanity increases with the spread of civilisation, owing to the greater

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wear and tear of nerve tissues involved in the struggle for existence.

The total number of insane persons exceeds by 0 per cent. that returned in 1891, but their proportion per hundred thousand of the population has fallen from 27 to 20. The decline is fairly general, the chief exceptions being the United Provinces, the North-West Frontier Province and four Native States in the peninsular area. In the United Provinces the number of the insane per hundred thousand of the population has risen from 12 to 18. No satisfactory explanation of

this large increase is forthcoming.

Deaf-Mutes.—By deaf-mutism is meant the congenital want of the sense of hearing which, in the absence of special schools, such as are only

just beginning to appear in India, necessarily prevents the sufferer from learning to talk. Clear instructions were given to the enumerators to enter only persons who were congenitally affilied. Bome few, perhaps, may have been included in the riturn who had lost the power of speech or hearning after birth, but the total number of such mistakes is now very small. In India as a whole 74 naics and 63 females per hundred thousand are leaf and dumb from birth. These proportions remuch the same as those obtaining in juropean countries.

Blindness.—In India as a whole fourteen treons in every ten thousand of the population to blind, as compared with from eight to nine a most European countries and in the United lates of America. At is a matter of common bervation that bilindness is ordinarily far more immon in tropical countries than in those with temperate climate. It is, however, less common in India than in parts of Lastern rope; in Russia, for instance, mineteen sons in every ten thousand are blind.

Lepers.—In India as a whole 51 males and females per hundred thousand persons of the different provinces, am suffers most, then Burma, and then in tr Bihar and Orissa, the Central Provinces I Berar, Madras, Benzal, Bombay, the Ited Provinces, the Punjab and the Northest Frontier Province. In the two last-mended provinces there are only 17 male and 8 and lepers per hundred thousand of each sex. I occurrence of leprosy is very local and its valence varies enormously within provincial undaries.

The number of lepers has fallen since 1891 from i to 109 thousand, a drop of more than 13 per it. When it is remembered that the number persons suffering from the other three infirites taken together has remained almost stanary, it may be concluded that the decrease the reported number of lepers is genuine and leates a real diminution in the prevalence of

the disease. It is possible that this is partly the result of the improved material condition of the lower castes, amongst whom leprovy is most common, and of a higher standard of cleanliness. The greater efforts which have been made in recent years to house the lepers in asylums may also have helped to prevent the disease from spreading. The total number of asylums in India is now 73, and they contain some five thousand inmates, or about 4.7 per cent, of the total number of lepers. This may not seem much, but it has to be remembered that the movement is still in its infancy and that progress has been very rapid in recent years. Complete statistics for 1901 are not readily available, but it is known that in the two provinces of Bengal and Biliar and Orlesa, the number of lepers in asylums was then only about half what it is now. The greater part of the credit for the provision of asylums for these unfortunate persons belongs to the Mission for Lepers in India and the Last, which receives liberal help from Government. Its latest report shows that there are 3,637 lepers in the forty asylums maintained by the Society.

The belief is growing that leprosy is communicated from one human being to another by some insect, and two South African doctors have recently published papers implicating the bed bug (acanthia lectularin). If this theory be correct it is obvious that the segregation of lepers in asylums must reduce the number of foci of the discresse, and to that extent prevent it from spreading. It is worthy of note that in many of the districts where the disease was most prevalent in 1891, there has since been a remarkable improvement. Chamba which in 1891 had 34 lepers in every ten thousand of its population, now has only 16; in Birbhum the corresponding proportion has fallen from 25 to 16, in Bankura from 20 to 11, in Garhwal from 17 to 10, in Burdwan from 22 to 14 and in North Arakan from 28 to 20.

OCCUPATIONS.

'owhere are the many points of difference in local conditions of India, as compared with se of western countries, more marked than espect of the functional distribution of the pie. In England, according to the returns for in the control of every hundred actual workers, 58 are sin industrial pursuits, 14 in domestic 13 in trade and only 8 in agriculture, is in India 71 per cent. are engaged in passod agriculture and only 20 per cent. in all occupations combined. The preparation pply of material substances afford a means lihood to 19 per cent. of the population (workers) of whom 12 per cent. are employ-dustries, 2 in transport and 5 in trade. The ion of minerals supports only 2 persons per the civil and military services support 14, fessions and liberal arts 16, and domestice 18 persons per mille. The difference to the extraordinary expansion of trade lustry which has taken place in Western during the last century in consequence is covery of the steam engine, and to the provement in means of transport and the nechanical power in factories of all kinds have resulted therefrom. In Germany, are ago, the agricultural population was

very little less than it is at the present time in India. There are, as we shall see further on, indications that in the latter country also great changes are impending; and it is not unlikely that, as time goes on, the functional distribution of the people will become less dissimilar from that now existing in Europe.

that now existing in Europe.

The village.—Until the recent introduction of western commodities, such as machine-made cloth, kerosino oil, umbrellas and the like, each village was provided with a complete equipment of artisans and menials, and was thus almost wholly self-supporting and independent. Its channars skinned the dead cattle, cured their hides, and made the villagers' sandals and thomas. Local carpenters made their ploughs, local blacksmiths their shares, local potters their utensils for cooking and carryin' water, and local weavers their cotton clothing. Each village had its own oil-pressers, its own washermen, and its own barbers and scavengers. Where this system was fully developed, the duties and remuneration of each group of artisans were fixed by custom and the caste rules strictly prohibited a man from entering into competition with another of the same caste. The barber, the washerman, the black-mith, tie.

all had their own definite circle within which they worked, and they received a regular yearly payment for their services, which often took the form of a prescriptive share of the harvest, apportioned to them when the crop had been reaped and brought to the threshing floor.

Village sufficiency declining.—Even in India proper the village is no longer the self-contained industrial unit which it formerly was, and many disintegrating influences are at work to break down the solidarity of village life. The rising spirit of individualism, which is the result of modern education and western influnces, is impelling the classes who perform the humbler functions in the economy of village life to aspire to higher and more dignified pursuits. There is also a tendency to replace the prescrip-tive yearly remuneration by payment for actual work done. In many parts for instance, the village Chamar is no longer allowed the hides of dead cattle as his perquisite, but receives instead a payment for removing the cattle and for skinning them; and the hides are then sold to a dealer by the owner of the animal. Improved means of communication have greatly stimulatand inverting the consequent disruption of the village community, and by facilitating and lowering the cost of transport of commodities, have created a tendency for industries to become localised. The extensive importation of cheap European piecegoods and utensils, and the establishment in India itself of numcrous destroyed many village industries. The high prices of agricultural produce have also led many village artisans to abandon their heredi-tary graft in favour of agriculture. The extent to which this disintegration of the old village organisation is proceeding varies considerably in different parts. The change is most noticeable in the more advanced provinces, whereas in comparatively backward tracts, like Central India and Rajputana, the old organisation remains almost intact.

Agriculture.—India is pre-eminently an agricultural country. Of its total population 72 per cent. are engaged in pasture and agriculture, ciz., 69 per cent. in ordinary cultivation and 3 per cent. in market gardening, the growing of special products, forestry and the raising of farm stock and small animals. The 217 million persons supported by ordinary cultivation comprise nearly 8 million landlords, 167 million cultivators of their own or rented land, over 41 million farm servants and field labourers and less than a million estate agents and manarers and their employes.

On the average, in the whole of India, every hundred cultivators employ 25 labourers, but the number varies in the main provinces from 2 in Assam, 10 in the Punjab, 12 in Bengal and 16 in the United Provinces to 27 in Burma, 33 in Bihar and Orissa, 40 in Madras, 41 in Bombay and 59 in the Central Provinces and Berar. These local variations appear to be independent alike of the fertility of the soil and of the density of population. The conclusion seems to be that the differences are due to social, rather than economic, conditions, and that those provinces have most field labourers which contain the largest proportion of the depressed castes who are hereditary agrestic seris.

Of the two million persons supported by the growing of special products rather more than half were returned in tea, coffee, cinchon-indigo, etc., plantations and the remainder fruit, vegetable, betel, vine, arecanut, etgrowers. Of those in the former group, near nine-tenths were enumerated in the tea-garde of Assam (675,000) and Bengal (248,000) at most of the remainder in the coffee, tea, rubb and other plantations of Southern India.

Of the 16 persons per mille who were class under Ralsing of farm stock, nearly four-fit' were herdsmen, shepherds, and goather rather more than one-seventh were cattle ar buffalo-breeders, and keepers and one-eleven

sheep, goat and pig breeders.

Fishing and Hunting.—In the whole India about 2 million persons, or 6 per mi subsist by fishing and hunting. Of these, i but a small fraction are fishermen. Abo half the total number are found in the two pr vinces of Bengal (644,000) and Madras (318,000) The number who live by this occupation exceptionally small in the United Province (33,000) and Punjab (10,000). The Punja Superintendent says that, owing to the destrution of immature fish and fry and the obstration of the free passage of fish to their spawning grounds, the five thousand odd miles of lar nivers and major canals in his Province probably produce less food than an equal volume (water in any other part of the world. Ti sea fisheries of India, though now known to tvery valuable, are at present but little epoleted.

Mines.—In the whole of India only 530,00 persons or 17 in every ten thousand are supported by the extraction of minerals. Coal min and petroleum wells account for about half thotal number (277,000). The coal fields (Blhar and Orissa support 127,000 persons an those of Bengal 115,000. In the Manbhu district, which contains the Jherria, and pai of the Raniganj coal field, 111,000 persons (7 per cent. of the inhabitants are supported bwork in the collieries. Though the Ranigani coal field was discovered as far back as Irimany years elapsed before much use was mad of the discovery. In 1840 the total quantity of coal sent to Calcutta was only 36,000 coult trose to 220,000 tons in 1853 and to aix milliotons in 1001. Since then the growth has bevery tapid. The output in 1911 from the comines of Bengal and Bihar and Orissa exceedeleven million tons. In the same year the totayield for all India was twelve million tons. One latter quantity nearly one million were used by the railways. The total output however is stirvial compared with that of the United King dom, which amounted in 1911 to 272 millions. Most of the persons emplo, ad in the mines of Bengal and Bihar and Orissa exceedences. Most of the persons emplo, ad in the Bauris and Santals, and many of the remainder belong to the Bhuiya, Chamar or Mochi, Fort Bauris and Santals, and many of the remainder belong to the Bhuiya, Chamar or Mochi, The commes of Hyderabad, Assam, the Central Princes and Berar, and the Punjab suppose between them only about 27,000 persons.

Metals.—Of the 98,000 persons supported h mining for metals, more than half were return.



n persons. Seven-eights of these are the ordinry village potters who make the various earthenare utensils for cooking and storing water which re required by the poorer classes, as well as lles, rings for wells and the like. In most parts of India the potter, like the carpenter, oil-presses, lacksmith and cobbler, is found in practically every village.

Chemicals.—In a country like India, whose conomic development is still backward, it is not to be expected that a large number of persons should be engaged in industries connected with chemical products. The total number returned as supported by these industries exceeds a million but it shrinks to less than 100,000 if we exclude manufacture and refining of vegetable and mineral oils. The 1·1 million persons included in this group are almost entirely village artisans who extract oil from mustard, linseed, etc., grown by their fellow villagers.

Food Industries.—Of the 3·7 million persons supported by food industries the great majority follow occupations of a very primitive type. Itice pounders and huskers and flour grinders number 1·6 million, grain parchers, etc., 0·6 million, and toddy drawers about the same. There are 352,000 butchers, 281,000 sweetment makers, etc., and 07,000 bakers and blscuit makers. The other five heads of the scheme contain between them only 227,000 persons. The principal factories in connection with food industries are flour and rice mills, which employ 42,000 persons, sugar factories 8,000, opium, ganja and tobacco factories 7,000 and breweries 5,000

Dress.—In all 7.8 million persons are supported by industries of dress and the toilet. Of these 1.3 millions are grouped under the head tailors, milliners, dressmakers, etc., and 2.1 million under each of the heads (a) shoe; boot and sandal makers, (b) washermen, cleaners and dyers, and (c) barbers, hair-dressers and wigmakers.

Transport.—Transport supports about five million persons, or 16 per mille of the population, agricultural counter, one million, transport by

The per cent. are engaged in pasture and dignediture, viz., 69 per cent. in ordinary cultivation and 3 per cent. in market gardening, the growing of special products, forestry and the raising of farm stock and small animals. The 217 million persons supported by ordinary cultivation comprise nearly 8 million landlords, 167 million cultivators of their own or rented land, over 41 million farm servants and field labourers and less than a million estate agents and managers and their employes.

On the average, in the whole of India, every hundred cultivators employ 25 labourers, but the number varies in the main provinces from 2 in Assam, 10 in the Punjab, 12 in Bengal and 16 in the United Provinces to 27 in Burma, 33 in Bihar and Orissa, 40 in Madras, 41 in Bombay and 59 in the Central Provinces and Berar. These local variations appear to be independent alike of the fertility of the soil and of the density of population. The conclusion seems to be that the differences are due to social, rather than economic, conditions, and that those provinces have most field labourers which contain the largest proportion of the depressed castes who are hereditary agrestic serifs.

next most important item, supporting 4 per mille of the population. In connection with these figures, it is necessary to draw attention to the great difference which exists between the economic conditions of India and those of Europe. In Europe the seller is almost invariably a middleman, whereas in India he is usually the maker of the article, and is thus classified under the industrial and not the commercial head.

Professions.—The public administration and the liberal arts support 10-0 million persons or 35 per mille, namely, public force 2.4 million, public administration 2.7 million, the professions and liberal arts 5.3 million, and persons of indepen-dent means about half a million. The head Public force includes the Army (0.7 million), the Navy (less than 5,000) and the Police (1.6 million). India has practically no navy and her army is exceptionally small, as compared with those of European countries. The number of persons actually employed in it is only 384,000 or 1 per mille of the population, as compared with 4 per mille in England and 10 in Germany. The figures for Police include village watchmen and their families. and their families. The real number in this group is greater than that shown in the census tables many of these village officials have other means of susbsistence, and the latter were sometimes Under the shown as their principal occupation. head Public administration are classed only those persons who are directly engaged in the Executive and Judicial administration and their establishments, whether employed directly under Government or under a municipality or other local body. Employees of Government and local bodies who have a specific occupation of their own, such as doctors, printers, school-masters, land surveyors, etc., are shown under the special heads provided for these occupations. Of the 5-3 million presents are selected to the second provided to the million persons supported by the professions and liberal arts, Religion accounts for rather more than half, Letters and the arts and sciences for more than a sixth, Instruction and Medicine for one-eighth, and Low for one eightheath. The one-eighth, and Law for one-eighteenth. The main head Religion contains 1.0 million priests, minister in the collieries. Surious mendicants, or and field was discovered and circumster

many years elapsed before mucirial or burn of the discovery. In 1840 the totatechist of coal sent to Calcutta was only 35-criter. It rose to 220,000 tons in 1838 and co 512-cnist tons in 1901. Since then the growth has tyvery rapid. The output in 1911 from the 6 mines of Bengal and Bihar and Orissa exceedered million tons. In the same year the totyleid for all India was twelve million tons. (the latter quantity nearly one million tons were exported, and four million were used by trailways. The total output however is trivial compared with that of the United Kindom, which amounted in 1911 to 272 milliotons. Most of the persons employed in timines of Bengal and Bihar and Oi. n are shriginal or quasi-aboriginal; abor half abauris and Santais, and many of the remaind belong to the Bhulya, Chamar or Mochi, Kot Rajwar, Dosadh and Musahat Latts. Il great majority are recruited locally. The comines of Hyderabad, Assam, the Central Trinces and Bernr, and the Punjab suppose between them only about 27,000 persons.

Metals.—Of the 98,000 persons supported I mining for metals, more than half were return

kons, \$10,000, or two-niths of the total number | Bombay where Indians own 110 of the Ante cathon, or thornton or the total numbers, are employed in the growing of special products, 555,000 in textile industries, 221,000 in mines. 71,000 in metal industries, 20,000 in food industries, 71,000 in metal industries, 40,000 in glass and employed on them. The collee plantations are four times as numerous as indigo concerns and four times as numerous as indigo concerns and indigo-indians.—Angio-indian is used at the cross on tea gardens, 70 per cent. of the labour-consus as the designation of the mixed race as many labourers. Of the labour-consus as the designation of the mixed race Assum and 27 per cent, are returned by descended usually made and indigentary indigentary formerly known as the labour codes plantations. And lithus under this head excluding between them prace Light and the codes plantations. thenly all the coffee plantations, and lither and Orises all the indigo factories. Of the persona working in mines, 130,000 cm. sons working in mines, 133,000, or 61 per cent. are found in collieries, eight-ninties of them being in the two provinces of lilliar and Orissa and Bengal. The number of persons engaged in gold mines is about one-acti of the number in the coal mines : nine-tentils of them were returned from Mysore. Of the 558,000 workers, in textile te-dustries, cotton mills contribute 303,000 and dustries, near etc., 23,000. About two-thirds of the persons employed in cotton mills are found in the Bombart. Presidence, from 8 to D. nor cont. in the Bombay Presidency, from 8 to D per cent. In the Central Provinces and Berar and Madras, in the Central Provinces and Berar and Madras, and about half this proportion in the united Provinces and Bengal. Jute mills are a monowith transport, railway workshops are by far 15,000 persons, or 70 per cent. of the total number of persons engaged in these industries: a bout one-fourth of them are found in Rengal. about one-fourth of them are found in Bengal and one-lixth in Bombay. Of the factors connected with food industries, the most proping minent are rice and floar mills. These emolor connected with 100d industries, the most pro-minent are fice and flour mills. These employ \$2,000 persons, of whom nearly three-fourths are engaged in the vice mills of Rangoon and

Indians and Europeans.—The proportion of Indians to Europeans varies considerably in of Andrews to Editories, The great majority of the larger concerns are financed by Euroity of the larger concerns are unanced by empean capital, and in such cases management or direction is generally European, and the Indiana linest part on supervision are engaged for the inest part on supervision and circial work. inost part on supervision and ciental work. In Assam where 640 tea gardens are owned by European and 60 by Indians, there are the company of Managers. In

apinning and weaving milis and since 25 with Laropeans, and the latter own exclusively only 12, all but 43 of the managers are ludding. Some 71,000 in metal industries, 49,000 in glass and carthenware industries, the same number in in-supervision, etc., varies with the character of dustries connected with chemical products and products, tea (703,000 cmployees) is by far the most important. The number of tea gardens of industries of the degree of skill, Europeans employed in control of the degree of skill, engagement outputs at high degree of skill, Europeans outputs and its not much more than double that of coffee planthe most important. The number of tea gardens | diams in the ratio of nearly \$ 10 1, whereas in the factor filmed as filmed as

indian mothers, which was formerly known as indian mothers, which was formerly known as indicated in the foldinumber of persons returned under this head, excluding Feringis, is now that the second of the second o 100,461 or 16 per cent, more than in 1901, Anglo-Indians are most numerous in Madras (26,000) Bombay and Burna the number ranges from 8 to 11 thousand, and in Dihar and Orisa, the Double Double of the Dihar and Orisa, the Dihar and Dihar Dih 8 to 11 inousand, and in Dinar and Orissa, the Central Provinces and Bernr and the Punjab it is about 3,600. In the States and Agencies Angio-Indians aggregate Only 14,000 more than half being found in Mysore and Hyderakad. The increase in their number as commenced with The increase in their number as compared with 1001 may be due partly to some Anglo-Indians inving returned themselves under their new continuous and themselves under their new continuous and the second themselves are their new continuous and the second themselves are the second the second themselves are the second themselves are the second the second themselves are the second themselves are the second designation who would have claimed to be alternative and it is also perhaps due in part to a growing tendency amongst cortain classes of Indian Christians to pass themselves off as Anglo-Indians. The Punjab Superintendent accounts in this way for the greater part of the increase of 42 per out, in the number returned increase of 42 per cent, in the number returned as Anglo-Indians in his province. The proportional increase is also large in the United vinces and Berar and the Cochin State, although Madras still has the largest number than it was twenty years ago. Possibly this is of Angio-indians, the total is sugarily less now than it was twenty years ago. Possibly this is because more careful enumeration has reduced the number of Indian Christians who thus the number of mutan constants was thus feeluned themselves. The number of Anglo-indians in Burms is remarkably large in view of the comparatively short time that has clapsed vines it became a British possession and the strength of its European population. In this community there are 054 females per thousand In Assam where 640 tea gardens are owned by Europeans and 60 by Indians, there are proportions in the general population of Indian the same principle is apparent. The late milis of Bengal are financed by European capital and European and 13 indians are Roman Catholics, and one-fulful are Registans; the number of Presbyterians; the number of Presbyterians; the number of Presbyterians. males, or slightly more than the corresponding the same principle is apparent. The fute mills | Anglicans; the number of Presbyterians, of Bergal are financed by European capital and | Baptists, and Methodists ranges from 2 to 2;

Education.

Indian Education is unintelligible except through its history. Seen thus it affords the speciacle of a growth which, while to one it will appear as a huge blunder based on an initial error of judgment easily avoided, to another stands out as a symbol of sincerity and honest endeavour on the part of a far-sighted race of rulers whose aim has been to guide a people alien in sentiments and prejudices into the channels of thought and attitudes best calculated to fit them for the needs of modern life and western ideals. A careful survey of the history of Indian Education will reveal the opposition between two tendencies whose struggle for supremacy was finally decided by Lord Macaulay's Minute of 1835. The be-ginnings of public education in India belong to a generation before Macaulay's regime. But it was not till Macaulay poured such emphatic contempt on Oriental learning that the Gov-ornment in India in general definitely chose the path of English education as the road to future progress. Magaulay's Minute crystallises a point of view which had already some years before begun to impress their upon edu-cationists in this country. And when we find a statesman of the acumen of Lord Curzon saying "Ever since the cold breath of Macaulay's rhetoric passed over the field of the Indian languages and Indian term books, the elementary education of the latter books, the elementas strivelled alto heopie in their own tongue that he will be alto heopie in their own tongue that he will be a the field will be a solely responsible to the property of the latter of their own tongue that he will be a solely responsible to the solely responsible to r the trend which modern education has Atory of education in India under British rule make clear once for all that education on co a growing demand which none but callous rulers could refuse, as also for the very forcible reason that without some kind of organised training of Indians in English composition and ideas the practical work of administration which demands an ever-increasing number of clerical assistance to meet the needs of steadily accumulating office work, could never have been carried on. These two points give one the clue to the main features of Indian education (1) the claim of newly-awakened races to be allowed to substitute for their own lifeless learning the progressive culture of modern

Western thought; and (2) the obvious utility of a system whose object should be, in part at least, to assist Indians to a development of their capacities and sympathies on lines which might be of service in the actual government of the country. With reference to this last point the following consideration may be urged. The object of our great Universities and Public Schools in England is generally admitted to be something more than the satisfaction of purely theoretical interests. They are meant to be the training ground of capable public servants. Let us once admit this to be a necessity in England; if then we recognise the impossibility of administering the great Indian Empire through Englishmen alone, there seems to be no adequate reason for refusing to apply the same methods to India. And as there is nothing in Indian History to show the particular value of any Oriental system of education as a training for public service, the lo-gical conclusion is that Indians should be educated in English along Western lines. If an observer were confronted with a country ruled by foreign administrators backed up by a foreign army, he would infer on a priori grounds that the said foreign power had included in its legislation 6 System of education analogous to its own-if his opinion of it had not led him to suppose that it had adopted the sceptical or ungenerous policy of not educating its subjects at all. That would present itself as the only possible alternative. And the problem of Indian Education may be said to resolve itself into a doubt which of the two policies is preferable, that of non-education or that of English education. Yet the doubt itself has only to be stated to be solved. And the task of explaining Indian education becomes in the end simply one of showing how the initial encouragement on the part of British rulers of Oriental learning did not so much begin education as foster the desire for education, until at last the Government undertook the duty of guiding such aspirations into what it conceived to be the right channel. To this end our sim will be to show (1) Indian education in the stage of conception, and its birth somewhere about the time of Macaulay's Minute, (2) its growth and organisation, (3) its present situation.

THE BIRTH OF INDIAN EDUCATION.

The seeds of an interest in education may be sald to have been sown by the foundation of the Calcutta Madrasa by Warren Hastings in 1781, and the Sanskrit College at Benaies by Jonathan Duncan in 1791. Whatever interest there was in learning during this period was directed solely to the encouragement of Sans-krit and Arabic. Even the Act of 1813 which tet apart a lake of rupers for "the revival and promotion of literature and the encouragement of learned natives of India, and for

of the sciences in the British territories of India" was interpreted as a scieme for the encouragement of Sanskrit and Arabic; and It was not till the famous meeting of the Governor-General's Council in 1836 that it was definitely discussed whether it might not accord with the meaning of the Act of 1813 to use at least part of the money for the encour-agement of the study of English. But other forces had been already at work. In 1817 the Hindu College was opened at Calcutts with the introduction and promotion of a knowledge | the express object of instructing "the sons

of Hindus in the European and Asiatic langua-to the intellectual treasures of a nation to begin res and sciences," English being assigned the by the destruction of its indigenous literature; most prominent position. The moving spirit and I cannot but think that the future attain-which led to the foundation of this institution ments of the natives will be increased in extent which led to the foundation of this institution ments of the natives will be increased in extent was Raja Ram Mohan Roy who in the words as well as in variety by being, as it were, encot Mr. H. R. James in his important book more and so the important book indication and Statesmarship in India," incarnates the impulse which led thinking character." Elphinstone's interest in education." From that time forward the fartishted observer must have realised that a of his departure, resolved to found two promovement had begun which whether we would fessorships in his memory "to be held by a role we could be supported by the su

cation." From that time forward the farsighted observer must have realised that a
sighted observer must have realised that a
of his departure, resolved to found two proflex not we could no longer check. The same
period when natives shall be fully competent
to hold them." It is sufficiently clear not
hold them." It is sufficiently clear not
hold them." It is sufficiently clear not
hold them if it is sufficiently clear not
only that an interest had been aroused in
English education but that some attempts had
been made to meet the interest before 1835,
though Lord Curzon may have given a fust
exchange the ratives in the pursuit of European schence, he repudlates the idea that the
furthy filled side of education should be tofailty abandoned. In his own nords: "It all, it wholly lacked any scientific organizawould surely be a preposterous way of adding

GROWTH AND ORGANISATION OF ENGLISH EDUCATION IN INDIA.

o make clear once for all that education on steetern lines was necessary as an answer to a growing demand which none but callous rule to could refuse, as also for the very forelble rulers could relieve, as also for the very forcible reason that without some kind of organised training of Indians in English composition and ideas the Practical work of administration Cerical assistance to meet the needs of steadily action of the doty of accumulating office work, could never have accumulating office work could never have been carried on. These two points give one the first channel. To this end our aim the for the main features of Indian cducation in the first of the main features of Indian cducation in the first of the main features of Indian cducation in the first of the main features of Indian cducation in the first of the main features of Indian cducation in the first of Indian cduca which demands an ever-increasing number of which demands an ever-increasing number of which demands of steadily derical antifance to meet the needs of steadily

alling modern western knowledge on the it should be taught through the medium of it should be taught through the medium of it should be taught through the medium of its the significance of Macaulay's famous Indian languages. Yet here too he represents in or oriental school, which deserves an attitude which was fast becoming that increase of Mountetuart Ephinstone, it is justed Indians. And, if there is contains the forms to the juster other reasons, the ultimate that the increase of the two follows its more offensive to Indian ears for these forment, the follows of the two follows. It is found in a sum of the contains thought. It is found in a doubt which of the two follows things of ducation in India under British rule is preferable, that of non-ducation or that of the imple of ducation in India under British rule is preferable, that of non-ducation or that of the imple of ducation in India under British rule is preferable, that of non-ducation becomes in the offer of make their one of the two pasts of the stated to be solved. And the task of make their one is the ducation of explaining Indian education becomes in the offer of the stated to be solved. And the fact that of the past of British rulers of the fact that the past of British rulers of the fact that the past of British rulers of the fact that the past of British rulers of the fact that the past of British rulers of the fact that the past of the past of British rulers of the fact that the past of the past of British rulers of the past of the past of the past of British rulers of the past of the past of the past of British rulers of the past or explaining indian education becomes in the end simply one of showing how the initial en-couragement on the part of British rulers of Oriental learning did not so much begin educa-tion as foster the desire for education, uptil at last the Government undertook the duty of at last the Government undertook file doty of

THE BIRTH OF INDIAN EDUCATION.

The seeds of an interest in education may be tal to have been sown by the foundation of the rate of the Surkett College at Benairs by Jonathan Duccan in 1701. Whatever interest to making Duccan in 1701. Jonathan Duncan in 1791. Whatever interest there was in learning during this resid was directed solving to the encouragement of Sans-directed solving to the encouragement of sans-directed and Arabic. Even the Act of 1813 which let agart a lath of rupes for "the revival and premotion of literature and the encouragement of learned natives of India, and for the letterization and rupmotion of a knowledge the introduction and promotion of a knowledge

of the sciences in the Billish territory's tanda" was interpreted as a scheme for encouragement of Sanskitt and Arabic; it was not till the famous meeting of the ernor-General's Conneil in 1855 that: it was not till the famous merting of their ernor-General's Council in 1855 their definitely discussed whether it me on the cord with the meaning of the figure at least rart of the more in impetual agreement of the study of Eng games and forces had been already at Wind no in the first had been already at Wind not in the cappear object of Funder was not the express object of Funder was not the large and the cappear object of Funder was not the large and lar

INDIA.

The frontillegiven is low afford useful comparisons with previous years and serve to the trade the proof hand expansion of education in India ;---

(a) Students.

				Pali	lle Instituti	ous.		l Institution blic & Priva	
	Yest.			Mat s.	Œd•.	Total,	Males,	Glds,	Total
		•			i				
1500 67	• •	• •		*2,761,751	*206,168	2,970,859	*3,115,505	*277,736	3,313,544
1591-92		••	••	3,041,510	307, tea	3,318,910	8,517,778	839,043	0,850,821
1596 97		٠,		5,429,376	360,006	3,765,352	3,054,712	402,158	4,356,876
1001-02				3,193,325	599,168	3,556,400	4,077,430	441,470	4,521,900
1966 67	• •			4,161,832	570,61h	4,744,480	4,743,004	645,028	5,388,632
1911-12	• •			6,253,065	875,660	0,12H,725	5,628,162	952,630	0,780,721
1915-10	•			5,871,181	1,112,021	6,983,208	6,431,215	1,180,281	7,617,406
er (has			- 1						

^{*} These figures do not include the girls in boys' schools, or the boys in girls' schools, as the care may be.

(b) Expendituel.

				Direct Expe	nditun .	Direct and	Indirect.
	Year.			Public Funds.	Tota).	Public Funds.	Total.
	• .			R4.	Ru.	Rs.	Rs.
	:ુક		••	*	1,08,31,316	1,34,81,812	2,52,42,414
	(Male Franslo	••		1,07,55,368	2,40,93,149	1,50,18,164	3,05,19,632
		••		1,19,85,617	2,77,08,737	1,67,65,650	3,52,44,900
001			٠.	1,20,28,586	3,06,37,633	1,77,03,008	4,01,21,469
.006-07	₹1			1,88,31,204	3,88,07,352	2,06,34,674	5,50,03,673
911-12	••	. •		2,57,57,212	5,39,41,277	4,05,23,072	7,85,02,005
1915-10		••		3,90,01,135	7,47,43,004	0,21,08,904	11,08,20,240

^{. .} No information.

Progress continued along these lines in Bengal and more slowly in other Presidencies, until in 1852 the numbers under instruction in Government colleges amounted to 25,372 of which 9,893 were for English education (James p.34). The increase of numbers must have been materially affected by a Resolution of Lord Hardingo's Government in 1844 in which it was etated that in the selection of candidates for o those who had been educated in the newly ashloned type of institution. An adherent f the old-fashloned intellectual ideal of college ife would see in this Resolution a fatal concession to the utilitarian view and a fatal misdirection of public attitude towards edu-

Meanwhile educational Institutions had so multiplied throughout India that the time mas becoming ripe for the decisions arrived at in Sir Charles Wood's Despatch of 1854. The old idea had been that the education imharted to the higher classes of society would gradually "Alter down" to the lower classes. How little true it is that education could ever filter down to the masses in India by its own percolative properties is evident enough even now when our wide system of schools entirely now when our wide system of schools entirely fails to touch the majority of India's population. The Despatch of 1854 marks a departure from the "filtration" policy and a recognition on the part of an enlightened Government of educational duties, even towards lions of the population who had never entered the idea of Government obligations their direction. The result of the Despatch struction on lines which do not differ at all

anstruction on lines which do not differ at all essentially from Departments of Public Instruction of the present day. They represent a direct desertion of the laissez fairs or filtration policy, and an attempt on the part of Government to "combat the ignorance of the people which may be considered the greatest curso of the country." Another feature of the Despatch was an outline of a "University" system, which formed the basis of the scheme adopted in 1857 when Acts were passed for the incorporation of three Universities, one for Calcutta, one for Bombay and one for Madras. As Lord Curron said: "The Indian Universities may be described as the first fruits of the broad and liberal policy of the Educa-tion Despatch of 1854." He might have gone further and said that the scheme outlined in it not only originated universities but contained singestless for their proper conduct tained singestless for their proper conduct tained so the same of the anticipates the actual procedure of at least one University, that of Bombay, by nearly eixty years.

Private Agencies.

The Despatch of 1851 and the orders based on it, together with later resolutions and modifications, organised education into some-

licing Anglo-Vernacular schools of colleges extend elementary education so as to reach the masses and also to establish a system of inspection with a view to guaranteeing the efficiency of private institutions which should be allowed grants-in-aid as well as Government Expansion under Institutions themselves. control sums up the aims of this combined system of grants-in-ald and inspection. As Mr. James puts it: "Local management under Government inspection stimulated by mants-in-ald grants-in-ald, was to supplement and finally, perhaps, in large measure, to supersede direct management by Government." (p. 48) The latter part of the sentence may have been the likepiration of the Commission of 1882 appoint ed to inquire into the way in which the recommendations of the Despatch of 1854 had been carried out. The result of the Commission was to relax the control exercised by Govern-ment over education. Government's withdrawal was intended to refer only to secondary instruction. The idea was to encourage pri-vate enterprise in the founding of secondary schools. But though the recommendations of the Commission included much talk of conditions and cautions and of the necessity of maintaining a high standard, the addition of a further recommendation that the managers of aided schools and colleges be permitted, if they wished, to charge lower fees than Govern-ment schools of the some class led in the result to a general deterioration of standard. The recommendations of this Commission appear to some as a charter of inefficiency. They are the avenue to educational institutions run as a business proposition. Meanwhile, perhaps the most creditable feature of the Commission's Report was its insistence on the impor-tance of Primary Education and its recommen-dation "that primary education be declared to be that part of the whole system of Public Instruction which possesses an almost excin-sive claim on local funds set apart for education and a large claim on provincial revenues. The least creditable feature is its recommendation "that preference be given to that system which regulates the aid given mainly according to the results of examination." To pay by results is wilfully to encourage the cramming institution.

Great Expansion.

The period from 1882 to the beginning of the new century is one of phenomenal expansion. There was a general stampede for education, and no proper regard was paid to the standard or quality of the product. It is this period which if any deserves the opprobrium incurred by education in India. And it is the univer-sities which stand out as the chief sinners. There can be no reasonable doubt that students were being turned out with degrees attached to their names who could not be regarded as educated from any respectable standpoint. As a man who is doubtful whether an act of his really is so praisoworthy as the general chorus of congratulation had led him to suppose, suddenly, with tremors at the thought of the regulsion of opinion that is sure to follow if he turns out to have done wrong, feels certain of his error, so our Governors and Chancellors thing like the present system. Government of his error, so our Governors and Chancehors took the whole thing into its own hands and vice-Chancellors of this period gradually criabilised Universities, colleges, high schools and middle schools. Efforts were made to wrong with the seemingly excellent product

of the Despatch of 1854 and the Commission of constitutional reform." In September of of 1882. Criticism began from without, but that year an educational conference was confinally it invaded the sphere of Convocation addresses. At last in 1901 the Vice-Chancellor of the University of Calculta made this statement:

"For the first time, the Chancellor asks the University to consider the possibility of British India.

UNIVERSITIES ACT AND PRESENT SITUATION.

The Commission of 1852, which favoured instead in the direction of "new local teaching the policy of withdrawing higher education and residential Universities within each of the liminary test for certain professions and posts in Government service and to substitute it for the Matriculation as a general qualification, even, if possible, as a test of fitness to enter the University. The latest statement of Goveven, it possible, as a test on names of children the University. The latest statement of Government policy (dated Feb. 1913) re-asserts and emphasises these proposals, which are an attempt to enforce the suggestion of the Commission of 1832. But the general relaxation of Government control seemed to Lord Courses the radical axil of his day. Curzon the radical evil of his day.

New Senates.

then the mind among the more garing generis which Lord Curron had to face the maindministration of the Universities due to the mistake of their composition. All kinds of people had creful review. Before any quanticrept into the Senates of Universities who from the true educational point of view had no business there. The numbers had become unwieldy so that it was impossible to get passed even necessary reforms. The progress of are now respectable; secondary schools have education was retarded and modern innovable to the improved and placed under stricter contions simply ignored. As reconstituted the tion of the Universities due to the mistake of their composition. All kinds of people had crept into the Senates of Universities who from the true educational point of view had no business there. The numbers had become

from the control of Government within ecrtain provinces in harmony with the best modern from the control of Government within certain limits and of allowing colleges and secondary schools conducted by private enterprise to reduce their fees, though in many details it made admirable proposals, yet by its general policy led to a general inefficiency and lowering of standard in higher education. In some matters it anticipated all that has hithered one for example, in suggesting that there should be two sides in secondary schools, "one leading to the entrance examination of the Universities, the other of a more practical and other non-literary pursuits," it still antiisharacter, intended to fit youths for commercial tation on the Syndicate, to this extent that and other non-literary pursuits," it still anticipates Government action by many years, a number not falling short by more than one to universities Commission of 1962 proposed to make the School Final examination, a pre-timinary test for certain professions and posts its regulations that a majority of the elected in Government service and to substitute it members of the Syndicate shall be heads or for the Matriculation as a general qualification. professors of Colleges." It is evident then that the working bodies in the Universities have been cleaned up and are now so constituted as to contain the obviously essential educational element.

Policy of 1913.

The influence of Lord Curzon on educational progress has been generally salutary. For though his reforms had the air of restriction Not to speak of the lowering of efficiency and raised a general outery in India—"the consequent on the lowering of fees in schools a deliberate attempt to throttle higher educamention among the more glaring defects which Lord Curzon had to face the maindaministration of the Universities due to the attempt to throttle higher education of the Universities due to the attempt to the Chirol)—it is now recognized by called the consequence of collection. The education was retarded and modern innova-been improved and placed under stricter contions simply ignored. As reconstituted the Universities have revised their regulations simply ignored. As reconstituted the Universities have revised their regulations and though they have not ceased to be examinations mining universities they have taken upon have been simplified, buildings improved, the colleges affillated to them. They have relieved powers of becoming teaching the colleges affillated to them. They have relieved powers of becoming teaching the Government Resolution of 1913 was bodies. Little has yet been done to make them that; but it may be judged from utterances in their Semates that they are becoming increasingly conscious of their possibilities or duties in this direction. In the last Resolution on Education (Feb. 1913), it was decided that the principle of an examining and amiliating University must still be maintained. Nevertheless a movement is pro-

Statement of Educational Progress in BOMBAY.

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1015–10.	So change.	7 111 197,6	4,598 37,615 545,461	1,003	100 1,600 121,680	010,780	754,692	1917	99.58 29.51 19.52 19.53	1,54,11
1014-15.	10,259,555 0,430,004 10,833,249	110 0110 020,0	8,381 37,600 531,987 0.0	 1,051	04 4,485 119,000	£98'059	750,602	82,08 0,34 11,15	1,02,57	1,63,87
1913-14	No change.	10 141 12,790	1,604 17,427 101,490	1,271	93 146,210 1.2	790,303	1,026,017	70,64	90,60 20,51 39,43	1,59,63
1912-13.	No change,	111 133	3,850 45,385 078,031 5.4	08. 001,1	4,005 136,378 110,378	761,435	000,527 000,520 087,683	08,82 11,62 0,83	90°,00 30°,00 30°,83	1,63,48
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1910-11.	188,826 14,006,375 13,071,673	11,117	3,177 30,360 503,107	 13.1.1	2,087 112,105	110.596	787,005	46,60 10,84 9,54	86,88 24,49 32,53	1,24,00
	Arca in squaro miles (Ninio Population Total Population	Number of arts colleges	Mais Scholars in Public Institutions. In arts colleges. In primary schools Percentage of mails scholars, in public Institu- Percentage of mails scholars, in public Institu- Percentage of mails scholars, in public Institu-	ō,	Female Scholars in Public Institutions. In this schools In Dillary schools In Primary schools Preventage of female scholars in public institutions to female population.	TOTAL SCHOLARS in public institutions Femals	Total Total Scholling (both male and female) in all institutions.	iture (in thousand al rovenues nds nl funds	i .	LEAD TOTAL OF EARLADIANTE:

University Organisations.

with conteges admitted to them. In ouver-1 senate or its laculties or by the body in his-nor-General is the Chairment of the University dustes of the University.

A Commission under the Chairmanship of Universities. The Vice-Chancellor is nominated by each head of Government. The executive body is the Syndicate which is now organised of Calcula University.

sion to Government Inspection, recognition, so as to contain a larger educational element, and control. One of the most interesting over this body the Vice-Chancellor presides; features of the Resolution' is Government's all other members being elected by the various desire to develop the hostel system. In the Faculties except the Director of Public Inwords of the Resolution: "The Government's struction who is a member ex officio. The of India desire to see the hostel system develop secretarial work of all university business is until there is adequate residential accommod done by an officer appointed by the Senate; dation attached to every college and secondary the Registrar. The legislative body is the school in India." Altogether the Resolution Senate which is divided into faculties, a Foschool in India." Altogether the Resolution Senate which is divided into faculties, a Facili February 1913 ranks as a notable pronounce culty being a section of the Senate appointed ment, ranging as it does over every conceivable to control the work of a particular subject topic, from the Universities to what is often sight and a readiness to face the most complex problems of finance and organisation that augurs well for educational progress. There is reason to hope that our educational system in India will stand out as one of the most remarkable achievements in the history of imperial politics.

Senate which is divided into faculties, a Faculty of the Senate appointed to control the work of a particular subject. The Faculties are in most cases those of Arts; selence, law, medicine and engineering. There is an Oriental Faculty in the Punjab-University alone. Each of the main branches of study augurs well for educational system in India will stand out as one of the most remarkable achievements in the history of imperial politics. in the various examinations. The Senate as a whole consists of from 75 to 100 members, the majority of whom are nominated by Gov-These Universities are examining bodies ernment, the remainder being elected by the with colleges affiliated to them. The Gover- Senate or its faculties or by the body of gra-

UNIVERSITIES.

Constitution .- There are in India eight Universities with the following territorial limits .-

•				Territorial Limits.					
Uni	iversii	ty.		Province (including any Native State under its political control and any foreign possession included within its boundaries).	Native State or Colony.				
Calcutta		11		Bengal, Burma and Assam					
Madras '		• •		Madras and Coorg	Hyderabad and Ceylon.				
Bombay	• •		• •	Bombay and Sind	Baroda.				
Allahabad		••	• •	United Provinces of Agra and Oudh, the Central Provinces (including Berar) and Ajmer-	The States included in the Rajputana and Central India Agencies.				
Punjab	••	••	••	Merwara. Punjab North-West Frontier Province, British Baluchistan and Delhi.	Kashmir and Baluchijstan,				
Mysore	••	••		•••••	Mysore.				
Bennres †					Benares.				
Paţna	••			Bihar and Orissa					

[†] The Benares Hindu University is denominational, and its jurisdiction is limited to Benares. The constitution and functions of the governing bodies differ from those of the other Universities. At Benares, administration is vested in a Court (which is the supreme body) and in a smaller Council (mainly elected by and from the Court) which is the executive of the Court; academic control is restained in the Court of the Cou trol is vested in a Senate and in an executive Syndicate. The Court appoints the Chanceller and the Vice-Chancellor through election.

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Education in Bengal.	m 0 m
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Courses and Examinations.

The Matriculation Examination is the test for entrance to a University. After matriculation, if the student decides to graduate in Arts, he must take a four years' course. After two years he takes the Intermediate Examination. After another two years he may appear for the Examination for Bachelor of Arts. The regulations with regard to Honours vary in the different Universities. In Calculta the honours and pass courses are separate. In Bombay the honours student takes in addition to the pass three extra papers. In Madras the honours course is taken the year after and In addition to the pass course. The degree of Master of Arts requires a further examinaof Marier of Arts requires a utility examina-tion (except in Madras) which is taken one or two years after the examination for the B. A. degree. If the student elects to take science, his course is one of four years. In some Universities he receives the degree of B. A.; in others a separate degree of B. Sc. Where the separation between Arts and Science is clearly defined, the student takes the Inter.
Examination in Science two years after Matriculation, and two years after this examination appears for that of B.Sc. Those students who choose a professional course, e.g., agriculture, medicine or engineering, must in most cases first attend an Arts College for one or two years before proceeding to the professional college. The student who has graduated as Bachelor at a University can graduate as a Bachelor of Law in two years.

The annual output of graduates is reckoned the Sixth Quinquennial Review at 2742, and the proportion of students who graduate n the four main faculties is given as follows :--

Arts		••	85%
Science	• •	• •	20%
Medicine	• •	• •	9%
Engineerle	g		496

But it should be remembered that in some

The following table shows the percentages of success in the university examination most commonly taken(Indian Education in 1915-16):-

-	,	1906-07.	1911-12.	1915-16.
В. А.		39.2	50.8	51.1
B. Sc. :.		51.4	57.4	61.4
Intermediate (Arts.)	1	i	40.5	42.6
Intermediate (Science.)	}	40.04	40.8	52.7
Matriculation		44.2	53.6	52.8

Dacca University.

One of the most interesting features of the latest Government Resolution on education is the decision to found a teaching and residential university at Dacca. Government also profess themselves willing to cancilon under certain conditions the establishment of similar universities as occasion may demand. These experiments may be regarded as an attempt to get away from the addition and examining type of University and to conform to that ideal of a University which requires it not only to confer degrees but to supervise the training of intellect and character as closely as possible. A University of this type will turn out graduates who may be trusted to have in their degree satisfactory cordentials about their general character and ability. Under the existing system the University turns out graduates of whom it knows absolutely nothing beyond what it learns in examinations.

Colleges.

Amilated to the University are colleges which the University have power to inspect and regulate. In 1915-16, the number of colleges affiliated to the Indian Universities is given as 192, of which 147 are Arts Colleges, 22 Law Colleges, five Medical, four Engineering. five Agricultural, one Commercial, two Veterinary, one Porestry and twelve Teachers' Training Colleges. The number of students in Arts Colleges was 45,818, and in all Colleges 55,480. All colleges, whether under dovernment or private management, are inspected by tho Universities. Colleges receive cial aid from public funds, both provincial and Imperial. Under the Universities Act the Universities are empowered to make regulations about the residence of college students. The rule now is that students who do not realde with parent or guardian must reside either in a boarding house under supervision or in an approved lodging house. The result has been a larger provision of college residential buildings. The hostel system is definitely encounged by Government and in the latest Resource. But it should be remembered that in some intion (Feb. 1913) Government express the desire to see the hostel system extended to all colleges and secondary schools. The number of female students in Art Colleges only was 450 the colleges and secondary schools. was 460, in other colleges 131, making a total of 600.

Schools.

Government policy with regard to schools has been to provide a small number of institutions which are to be regarded as models for private enterprise. At the same time they insist on a careful inspection of all schools, whether they are run by municipalities or local boards, by private individuals or by missionary or other societies. Private and private in the private in the private in the private in the private is an arrest that the private is a consequent to the private and the private in the enterprise is encouraged by an extensive system of grants-in-ald, which are dependent on the efficiency of the school and its expenditure on teachers and general equipment.

Secondary Schools.

There is some difficulty in the classification of schools, secondary and primary. Here the Flith Quinquennial Review is followed as issuing from the Director General of Education, Secondary

Structured of Idvesticust Progress in BIHAR and ORISSA.

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	669,921	701,453	712,503	678,715	671,190
frite listintims (Frank)	9-1,951	05,241	105,470	111,711	114,671
Torus.	760,574	799,766	817,052	700,420	780,164
Torst Schotars (fethingle and fernal Jin all institutions)	604,659	817,211	861,535	800,200	831,430
Expenditure (in thousands of ropers). Proda proincial review of ronders I finds. Local level I finds. From municipal lunds.	10,55 7,85 52	23,11 8,24 62	37,71 11,29 91	36,72 11,13 1,08	31,41 15,57 1,28
Toral Expenditure from publications	27,02	81,87	45,01	51,03	48,26
From fees.	17,35 11,27	18,11 11,00	20,60 13,41	21,12 12,74	22,67 13,63
GEAND TOTAL OF EXPENDITURE	55,91	61,88	79,02	85,70	81,50

Note: The year 1912-191- the first year of the newly constituted province of Bihar and Ori-ra. The figures for 1911-12 have been given for the sake of comparison only,

schools are divided into English and Vernacular 1 of a Municipality or County Council. But in the first place. In the former English is a sub-there is a difficulty owing to the different sys-ject of instruction in the lower part and the tems prevailing in different Presidencies. ject of instruction in the lower part and the medium of instruction in the upper part of the school. In the latter English is not taught in any way. In the second place these schools are divid-ed into high and middle schools. In the former instruction in its highest branches leads to the standard of matriculation for a University: in the latter instruction is carried to a standard within three years of that in high schools. Thus there are four kinds of schools, English, High and Middle, and Vernacular, High and Middle. Of these the first two are often called Anglo-Vernacular as they combine instruction through the medium of the vernacular with instruction through the medium of English. But as there are so small a number of vernacular bit a schools that they are hardly worth in-cluding in a classification, and further as the vernacular middle schools are simply the highest stage of vermeular education and should therefore be included in the primary school system, the Review regards the distinction between English High and English Middle between English Righ and English The schools as a satisfactory classification. The distinction between these two is slight. A distinction between these two is slight. A middle school in the words of the Review, "is hothing more than a high school with two or three top classes cat off." There are now two examinations which a boy may take at the end of his school career.—(1) The Matriculation examination, (2) the School Final.

Primary Schools.

Here again there is a difficulty of classification owing to the different systems prevailing in the different provinces. However they are divided generally according to grade into lower primary and upper primary. Middle vernacular schools, classed usually among secondary schools, are really only superior primary schools and bear little relation to the systems prevailing in secondary schools. Primary schools, as the Review points out, have been defined as the education of the masses through the vernacular. If the medium of instruction be taken as the differentiation, then clearly middle vernacular schools ought to be classed as primary. In 1913-14 the number of these schools was 116,650. In the Government Resolution of Feb. 1913 is found the following statement: "It is the desire and hope of the Government of India to see in the not distant future some 91,000 primar public schools added to the 100,000 which already existed for boys and to double the 41 millions of pupils who now receive instruction in

A minor modification has been introduced in the year under review (1915-16) regarding the classification of makbabs, tols, pathshalas, etc. Such of them as teach all or a reasonable part of the primary course are now classed as primary schools. Formerly, they generally appeared under the head "other Schools."

Primary to Anglo-Vernacular.

The transition from Vernacular schools, that is, from primary to secondary education, is comparable to the transition from a Board school in Eng-

Nevertheless in all provinces a boy may begin in a vernacular primary school and pass from it to a secondary school. According to the Quinquennial Review, in Bombay all children must begin in the vernacular schools before proceeding to the secondary schools; in other provinces children may do so." (The italics are ours). "The point at which the teaching of English is begun in the secondary schools is usually the highest point in the secondary school to which children from vernacular schools can be drafted; but in the United Provinces and the Punjah there are special arrangements made to facilitate the transition from the vernacular school system to the secondary school system of children who have pursued the vernacular school course to a higher point than this." (p. 97). It may be useful to describe the actual procedure in one Presidency. In Bombay, before proceeding to an Anglovernacular school a boy must have passed standard IV of a primary school and a citistandard III. The curriculum of the first three standards of an Anglo-Vernacular school is very similar to that of the last three standards of a vermoular school (Standards V, VI and VII)—except that in the Anglo-Vermacular school English is added as a subject, though not used in those standards as the medium of instruction.

Rural Schools.

In the provinces of Bengal, the Punjab and a distincthe Central Provinces tion 15 and určan drawn between rural primary curriculum schools, The differs according to this distinction. In the Central Provinces the distinction was, up to the time of the publication of the last Review, one of time mainly, to allow the boys to spend half their time in agricultural work. The object of rural schools is not so much to teach agriculture as to train the minds of prospective agriculturists in an elementary way. In 1905 an attempt was made in Bombay to introduce agricultural text-books, the effect of which may only have been to destroy the faith of the bows in their faith. may only have been to destroy the faith of the boys in their father's primitive methods without having any appreciable influence on the improvement of agricultural practices. About a year ago a meeting of educational inspectors decided against this experiment. The whole question of remodelling the rural school course has been reconsidered, and in Boubay at least that and the ordinary primary course. at least that and the ordinary primary course have been brought closer together. A boy who starts in a rural school can now complete the whole primary course in the same time as a boy who starts in an urban school. The idea is that boys educated in rural schools abould not be put at a disadvantage. At the same time—and this is important—an attempt has been made to make rural education, however elementary, form a system of elementary education which should be complete in itself. The transition from Primary to Angio-Vernacular schools, that is, from primary to secondary education, is comparable to the transition from a Board school in Eng-the transition from a Board schoo

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	1910-11.	21-1161	1912-19.	191:-11.	1916-15.	1015-16.
Area in equare miles Population Fermale Total Population	107,141 21,629,311 22,565,015	107,267 21,641,531 22,540,213 47,784,011	No change.	Navlatze.	26,001	Nortsniv.
9	11.0 11.0 7.(%)	955	117	10. E.S.	10,54 10,54	55 et
In nrts colleges In light schools In light schools In plinary schools Itons to nalo population.	0,140 101,60 101,60 11.6	1,662 31,537 470,933 5:5	00 % CC C	2000 TO	7.70%	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Public Institutions for Females. Number of arts colleges Number of high schools Number of prints; schools Females of prints; schools	1 05 041	288	THE WOLL	1,83	10.1	- 1
In arts colleges In high schools In primary schools Percentage of fermale scholus in public institu- tions to fermale scholus in public institu-	31,824 37,565	108.14 108.14 1040.14	1200 CT +800 C	***	2000 2000 2000 2000 2000 2000 2000 200	01. 41 1-017-01 017-017-017-017-017-017-017-017-017-017-
Total Scholans in public institutions. Spendie. Total Scholans (both male and female) in all	530,341 43,066 573,407 645,787	573,194 48,391 021,388	30,269	55,526 55,526 721,233	653,121 57,552 710,673	894,056 58,002 753,543
Trom provincial revenues From local funds From municipal funds Total From the funds	31,33 24,74 3,17	02.00 12.00 12.00 12.00	48,01 20,57 3,72	10,74	8 15 15 15 15 15 15 15 15 15 15 15 15 15	46,61 37,14 37,14
From fees From other sources Grand Total of Expenditum	15,30	10,50 10,50 10,80	78,33 23,33 10,53	8,191 25,07 21,29	01,99 70,59 70,59	18,25 08,25 08,25 01,08
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	1010-11.	1011-12	1012-13.	1913-14.	1014-13.	1915–16.
Area in squaro milica Population { Femalo Total Population	97,213 10,902,007 8,982,889 10,974,956	No change.	No chungs.	No change.	10,770,707 10,770,707 18,807,252 19,577,050	10,770,705 8,807,254 19,577,059
Public Institutions for males. Number of onts colleges. Number of high schools Number of primary schools	11 08 3,321	11 101 3,417	102	9 111 4,168	1.55.0 1.55.0 1.55.0	130 1,757
Jule Scholars in Public Institutions. In arts colleges. In high schools . In primary schools . Forentings of male scholars in public institutions to male population.	164,893 164,091 163,091	2,630 47,740 179,410 2°5	16,990 16,990 107,230	3,163 47,946 219,796	3,496 60,521 227,890	2,873 51,261 24,132 2.63
.0	15 500	16	15 700	101	17.8878	1855
In arts colleges In high schools in Findio Institutions, In high schools In primary schools Precentage of female scholar in public institu- tions to female population.	20,174	1,605	1,520 32,118 32,118	13,721 37,190	1137,80 1737,80 1437,80	21,1453 5.59 6.5.
nstlintle	32,186		39,014	326,182	338,017	350,075
Total 3. Total Scnolars (both male and female) in all institutions.	310,018	381,113	101,011	430,056	336,740	463,157
Expenditure (in thousands of rupes). From Joyal funds From Municipal Funds	. 18,63 12,31 4,05		20,70 10,17 3,00	29,24 4,57	34,17 5,26	35,03 27,87
From fres from public tunits From other sources	34,90 15,20 10,38		10,82 20,07 13,61	64,77	03,82 19,82 10,53	08,90 25,30
THE TAIL TO THE TAIL	60,57	68,65	05,18	93,83	1,07,19	1,12,17
 Includes also vernacular high schools. 	ilgh zehools.	† Inc	Include an Imperial contribution of Re. 2,83,749.	contribution of	Rs. 2,83,742.	

from one to another at the will of Government. All, with some few exceptions, start at the pay of Rs. 500 per mensem with an annual increment of Rs. 50 per mensem, and go up to Rs. 1,000 per mensem, certain Directors of Public Instruction being put on to the salary of Rs. 2,500 per mensem. A small number of personal allow-ances was arranged in 1808, when the service was re-organized and received its title. There are lower allowances of Rs. 200 to Rs. 250, higher allowances of Rs. 250 to Rs. 500, and an allowance of Rs. 100 after fifteen years of approved service to those who do not get any of the other allowances. Except for the Director of Public Instruction, the limit of the prospect of a member of the Indian Educational Service is its 1,500 a month, the average prospects being considerably less. There is no short service pension. Schemes are on no short service pension. Schemes are on foot to improve the prospects of the service. Hitherto this service which is in reality one of the most important in the country has not been rightly estimated, though its members are as a rule men of real culture. Hence the great difficulty of recruitment. The number of posts in this service in 1017 throughout India. It is clear that the Service is under-Maffed, if one considers the mage and import-of its work. Hitherto higher educa-

Honal work has been little appreciated in India, " particularly by Englishmen. Non-a-days much is said of its importance, but little done

for those who carry it out.

Member for Education who sits in the Viceroy's Executive Council, and supervises the work of the Department of Education. Owing to the importance of the work carried out in this Department, there are Assistant instead of Under Secretaries.

(b) Provincial Educational Service.—In this service also are found principals and professors colleges, headmasters and Inspectors of schools, and, in addition, translators to Government and members engaged in other exceptional posts. This service is composed of Indians and recruited in India, the pay scheme being arranged on a much lower scale than that of the Indian Service in accordance with the qualifications and the cheaper rates of living of natives of India. The maximum pay is Rs. 700, the minimum pay Rs. 200. There is a general division between two branches, collegiate and general.

(c) Subordinate Educational Service.-The majority of this service are headmasters (a few), assistant deputy inspectors and all the assistant masters in Government high and middle schools. In Bengal a number of poorly paid teachers have been converted into a

"lower subordinate service." The may and prospects of this service are not good, and much complaint is made of the inferior nature of the teaching in schools run by its members. In 1907 the figures for this service stood at 6,025. At the head of all Educational departments, about Rs. 400. The maximum pay of this service is somewhere in India, at the seat of Government, is the be Rs. 30, but is now Rs. 40 per mensem.

STATISTICAL RESULTS.

The statistical table of educational progress in British India published for 1915-16 gives the were as follows following results :-

fact renders comparisons with past years di-ficult. In 1914-15, it wrought a decrease of about 4,000 institutions, a third of a million pupils and some 30 lakks of expenditure.

Note (ii) .- The percentages of pupils are now shown, not against 15 per cent. of the population, but against the population as a whole. (The population of school-going age was formerly reckined at 15 per cent. of the population).

The percentage of pupils in public institutions to population has risen in the case of boys to 4.7 in that of girls to 94.

The percentage to population of pupils in all institutions (both public and private) for each of the under-mentioned years is as follows :-

Males Femal's. Total. 1911-12 2.7 -76 1912-13 4.7 180 2.8 . . ٠. 10.3-14 ٠. ٠. 4.9 *83 1914-15 1915-16 •05 3.0 5:1 •• 5.2 1.0 3.1

The figures for higher institutions in 1915-16

Temales, Total. Males. 55,489 600 23,254 525,935 70,251 602,468

Note (i).—In 1914-15, it was decided to in public and private schools including primary exclude figures for certain Native States, departments of secondary and other public and private institutions where a council of British India. This vernacular is taught was 6,669,962 (5,568,011) The total of those under primary instruction boys, 1,101,951 girls).

The number of those under training for the profession of teaching has risen to 18,500 (774

in colleges, 17,732 in schools).

The number of pupils in technical and industrial schools has decreased to 12,685.

The number of pupils in schools for Europeans and the domictied community now stands at 39,481. The total number of European and Anglo-Indian students, however, is 39,645.

The number of Mahomedan pupils amounts to 1,767,783, of whom 5,992 are in colleges.

Expenditure.

The total expenditure in 1915-16 Was Rs. 11,08,20,240, an increase of nearly 161 lakis on that of the preceding year. Of the total, roughly 621 lakis are met from public funds (against 633 lakis in the preceding year), vis. 305 lakis from programmed 1 and lakis from district 395 lakhs from provincial, 180 lakhs from district and 46 from municipal funds. Of the 487 lakhs from private sources, fees contributed 183 lakhs.

	1	Send Send	Control of the contro			Ton the	100	100 mm 10		,Hrsp
		Market .	*.	10 0000 10 00000 10 0000 10 00		Tools of the state	27,013 27,020 201,125	F26,100	2. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	relade also vermentar ne
rment of Education	1910-11. Poll-12. Poll-12.	Sand Sand Sand Sand Sand Sand Sand Sand	100 mm	1.02 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2	23.3	193,401	73,000 270,316 413,235	1207	1 47,37 (5.5) Trice Cess Fined, 53,39	•
Slan	fals	Public Institutions for Males. Total Population off collected full scillories. Filters.	Male Schoins stools 1 telbols 1 telb	Public Intilutions for Terrales, of arts collection for Terrales, this schools for Terrales, of phinasty schools finds Schools for the School for the Schoo	utions.	etitutions Malo Is	mate) in all	EXPENDITURE 1.53	and the state of the provincial contribution to Plettice Coss Fund. The state of t	
j	Area in equare miles Population	Number of price fartifulions from Number of the colleges Number of their scolleges Number of their scolleges	In arts Male Schools Schools In high schools In Philats Schools In Philats Schools Pricerings schools from to male men schools	Number of arts courses Number of arts courses Number of arts courses Number of prints chools In arts. Frints Stays.	In high schools In primary schools Freezings of female schools freezings of female scholard in public finale	TOTAL SCHOLARS in public institutions, [Main Ferman Fer	From fort lands Total Explaints Total Expenditure From fext lands From fext lands	ORAND TOTAL OF EXPENDITURE (b) Includes Re. 72.817	10. 57.72 bel	

Among the larger provinces, the highest! expenditure was in Bengal, 257 lakhs.

Principal developments.—In the year 1912-13, the following additional allotments from Imperlal funds were announced for education in provinces and politically administered areas—319 lakks non-recurring from the surplus revenue of that year, and 55 lakks recurring from the revenue of the year 1913-14.

The following table shows the various Imperial grants made up to the end of 1915-16 Indian Education in 1915-10):---

		Lakhs of	rupees.
Grai	nts of	Recurring.	Non- recurring.
1910-11			63.00
1912-13 -		60.00	3,87.18
1913-14	$\cdot \cdot \left[\begin{smallmatrix} \mathrm{Old} \\ \mathrm{New} \end{smallmatrix} \right]$	\$2.00 \$0.00	•• 95
1014-15	$\cdot \cdot \left\{ egin{matrix} \mathrm{Old} \ \mathrm{New} \end{array} \right.$	1,15°00 9°00	i2·265
1015-16	·· [New ··	1,24.00	
	Total	4,23.00	4,03:38

1007-1012 have been described in the quinquennial roview.

Bihari Ghose. A committee worked out a scheme for the Dacca University, a project which has subsequently received the general approval of the Secretary of State. The reports on education in the various provinces show that in Madras the rules for grant-in-aid have been made more clastic and the amount given as grant-in-aid has increased by nearly 5 lakhs. In other provinces improvements have been made in secondary education; and in the Bom-bay Presidency the pay of assistant teachers in Government secondary schools has been increased. The pay of primary school teachers has seed in the pay of primary school teachers has likewise been improved; in the Punjab, graded scales of salaries from Rs. 12 to Rs. 30 a month are being generally introduced; in Bihar and Orissa the stipends paid to aided school teachers have been regulated; in the Central Provinces a sum has been earmarked for render-Ing pensionable the pay of all masters drawing Rs. 11 and over. Among developments in Muhammadan education the foundation of an Islamia College at Peshawar has been conspicuous. Other important committees deliberated during the period on primary education the education of Muhammadans and other important subjects.

Recent Developments.

The main developments have been described in the resolution which appeared in the Gazette of India published on the 22nd February 1913. which also laid down the policy of the Government of India. The year witnessed the assertion at the Imperial Durbar by com-mand of His Most Gracious Majesty the King Emperor of the predominant claims of educational advancement, the announcement of a recurring Imperial grant of 50 lakis for the promotion of truly popular education, and the high expression of his hopes and wishes for the expansion and improvement of education delivered by His Majesty the King-Emperor in graciously receiving an address presented by the Calcutta University. In addition to the recurring grant of 50 lakhs a recurring grant of 10 laklis was canctioned for university and higher education, and a non-recurring grant of 65 lakhs was also made. There has been expansion in expenditure accompanied by an increase of those under instruction. Other features of recent years have been the

collection of materials for the preparation of extensive schemes for the spread of elementary education, and, in certain provinces, for the improvement of secondary and female education : the growth of new ideas regarding university teaching, which has resulted in the proposal for a teaching and residential university at Dacca, schemes for the establishment of Universities Total . 4.23 · 00 4,03 · 38 of Professorships, Readerships, and Lecturerships in Universities like those of Calcutta and Bombay; the generous gifts in Total professorships in Universities like those of Calcutta and Bombay; the generous gifts in Total professorships in Universities like those of Calcutta; in Iroylew.

Among special features of the period are the of Industrial training and development; the at Nagpur and Rangoon, and the establishment Among special features of the period are the catablishment of a Faculty and the scheme of industrial training and development; the catablishment of a Faculty and the scheme sanctioning of an industrial scheme for the for a college of Commerce in the Bombay University. A generous gift of 10 lakhs to the University of Calcutta was made by Dr. Rash out by Colonel Akinson and Mr. Dawson into the Bihard Ghess. question of bringing technical institutions into closer touch with the employers of labour; the institution of an Oriental Research Insti-tute; and the conference held in July 1012 on the education of the domiciled community.

Important action has been taken in the United Provinces where vernacular has been made the sole medium up to the Middle standard. The school-leaving certificate has been established in Burma, and a scheme has been framed for Ajmer-Mercara, Bombay and the Punjab have made systematic arrangements for the medical inspection of pupils.

The war has not been without its effects on education in India. The ranks of those engaged. in educational work have to some extent been depleted, and great difficulty has naturally arisen in recruiting professors and inspectors from England. Financial stringency caused by the arise of the stringency caused to t by the war has led to a general policy of economy. But, in spite of all these adverse circumstances, general progress has not been impeded. figures of increase, given elsewhere, are not unsatisfactory. It may, however, be said that the general expansion of education, though far from checked, has been to a certain extent retarded.

Sintement	oΓ	Educational	Produce	In	ACCAR
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Statemen	t or Laucat	ional Progra	ess in ASSA	M.	
	1911-12.	1012-13.	1013-14.	1014-15.	1015-16.
Area in Equate miles	61,471 3,638,287 3,421,570 7,059,857	61,471 0,638,237 3,421,570 7,059,857	No change.	53,015 3,467,621 3,216,014 6,713,635	No change.
Public Institutions for Males.					
Number of arts colleges Number of high schools Number of primary schools	2 27 3,409	27 3,534	2 20 3,760	2 30 3,920	. 2 32 3,859
Male Scholars in Public Institutions. In arts colleges	205 8,723 132,151 4.3	300 9,985 138,230 4.6	441 11,180 150,584	550 12,223 162,291 6.7	502 12,182 101,612
Public Institutions for Females.					
Number of arts colleges Number of high schools Number of primary schools	1 242	2 256	200	<u>2</u> 345	305
Female Scholars in Public Institutions. In arts colleges	201 10,850	352 17,815	1 411 20,032	1 434 24,587	418 21,730
TOTAL SCHOLARSIN (Male	150,101	168,364	185,386	100,801	109,524
publicinstitutions { Female.	17.031	19,085	22,747	26,761	27.321
TOTAL	177,032	187,449	208,133	220,652	220,845
Total Scholars (both male and female) in all institutions	182,112	194,288	215,141	233,883	237,485
Expenditure (in thousands of supees). Trom provincial revenues From local funds	5,87 5,03	7,71 5,82	10,76 6,25	12,33	12,28 7,20
	,	16	33	44	43
From municipal funds	14	. 10		77	13
TOTAL Expenditure from public funds	11,04	13,69	17,34	20,68	19,97
From fees	2,70	3,02	3,50	3,75	4,39
From other sources	2,26	2,33	2,44	2,21	2,52
Grand Total of Expenditure	16,09	19,04	23,28	20,54	26,88

Note: -The year 1012-13 is the first year of the newly constituted province of Assam after the re-distribution. The figures for 1011-12 have been given for the sake of comparison only.

Commons of Educational Prostress in CENTRAL'S	ucational Pro	fress in CENT	'	VINCES and BERAR.		
20100100	1010-11.	1011-12.	1 🖫	1013-14.	1914-16.	1015-16.
Area in square miles	130,174 7,701,777 7,835,712	117,935 7,706,007 7,833,003	No change.	No change.	0,030,002 0,030,002 0,085,010 13,010,301	No change.
Total Population. The Management of Artes. Number of arts collegen. Number of light schools.	30 30	35	90 00 141.6	3,818	4. 24. 7.97.6	4,000
fnstillitions. i in public listit	210,750 210,750 3°4	608 3,102 228,235 3.6	703 3,547 218,130	800 3,024 274,601 4.901	1,013 4,069 4.52 4.5	1,081 4,030 256,187 4.6
Number of arts colleges Number of arts colleges Number of the colleges Number of third schools Number of third responses	301	3000	C 30	320	23.5	FOR STATE OF THE PARTY OF THE P
Penale Scholars in Public Institutions. In arts colleges In high celeois In primary solicols Percentago of female solicols	66.00 60.00	 92,048 00.	30,330	33,051 33,051	01,653	32,50
tions to temain population. Total Scholars in public institutions. Foundle.	280,062	30,720	302,077	328,814	312,755	505,318 55,308
Total Scholang (both male and femile) in all	207,614	312,086	33,1,031	301,801	317,113	350,381
mestrone. Expenditive (in thousands of rupers). From provincial rovenues From frowfinds,	11,48	10,01	11,47 13,88 3,70	13,82 14,15 3,53	14,03	
Total Expenditure from public funds from fres From other sources	11,12	25,01	3,07	31,50 3,91 0,80	33,72 4,72 5,61	38.21 6,30 4.25 4.25
GRAND TOTAL OF EXPENDITURED	30,85	32,05	37,88	41,30	11,05	17,85
	· Include	Include also Vernacular high heliools.	high schools.			,

Education in the NW. Province.
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te miles to Intinto to Solution to Soluti
Area in square miles Fopulation Sumber of arts solicist Number of pitch schools Number of pitch schools In arts solicist in the strength in the schools Freenant schools Number of the schools In the schools Number of little schools In the schools
Number Sumber Sumber Sumber Sumber Sumber Sumber Sumber of In hits sell in hits sel

44	4 ————			Lunon	1011 111					
	1916–16,	No change,	10	4,707	{	623.8	5,314	2904	25-12	014
	1011-15.	No change.					090'0	8,301	24 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	101
.6.	1013-11	No change.	03	220 4,005 6.5	Đ		5,300	8,039	520 820	Ta .
fre. 01	1012-13.	No change.	0C	1917	9	1 5 6 6	4,0475	7,615	520 825	011
Statement of Educational Progres ORG.	1011-12.	\$ 1,582 07,270 77,097	08)	3000		# # # # # # # # # # # # # # # # # # #	1,081	0,202	85 2 2 2 E E E	11:2
iternent of Ed	1910-11.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	31		0		1,090	010'9	127 77 120	3
18		Area in squate milles Population Female	Fublic Inditations for Manher of arts scolleges Number of arts colleges Number of high schools Number of primary schools	Alale Scholars in Public Institutions. In arts colleges In little schools In primary schools Percentage of male schoolrs on and somilation.	Number of arts colleges Number of arts colleges Number of high stoleols Number of plin systhools	Female Scholars in Public Institutions. In nats colleges In high schools pythangy echools Forceuting of female scholars in public institu- tions to female propulation.	Toxax Scholars in public institutions. Fremale	TOTAL SCHOLARS (both male and female) in all lastitutions. Transidiuse in thousands of success.	From provincial recents of papers. From provincial recents From numicipal funds Total Expenditure from public funds From other sources	GRAND TOTAL OF EXPENDITURE

Statement of Educational Progress in DELIII

	1012-13.	1913-14.	1014-15.	1015-16.
Population Female		No change.	No, change,	5741 220,312 182,207
	396,997	_		411,540
Public Institutions for Males.				
and the same to a mark to take a make a make	. 00	2 6 76	2 0 82	2 6 87
Mule Scholars in Public Institution				
In aris colleges In high schools In primary schools Iverentage of male scholars in publication stitutions to female population	1,830 3,907	236 1,780 4,877 3:4	280 1,915 5,181 3·7	309 2,911 5,355 3.8
Public Institutions for Females.	}			~, .
Number of arts colleges	2	10	10	. 13
Female Scholars in Public Institutions				
In arts colleges In high schools In primary schools Ivercentage of female scholars in publication institutions to female population	155 461 -54	 610 •00	543 • 00	701
(Malo	6,034	7,580	8,250	8,640
TOTAL SCHOLARS in public Female .	944	1,156	1,751	. 1,080
TOTAL	7,578	8,736	10,001	10,020
FOTAL SCHOLARS (both male and female	11,275	12,933	13,200	14,085
Expenditure (in thousands of Rupecs).				
From provincial revenues From local funds From Municipal funds	1,22 0 14	69 27 47	1,02 33* 55†	/ 1,44 42 50
TOTAL EXPENDITURE from public funds.	1,45	1,43	2,80	2,36
From other sources	41 41	83 97	91 1,08	95 1,24
GRAND TOTAL OF EXPENDITURE	3,27	2,23	4,70	4,65

[•] Includes Provincial contribution of Rs. 12,576. † Includes Provincial contribution of Ils. 9,763.

There were originally those albitual to overments in favour of funding a Central Him in Legal to the get forces, whiter the line and place, is 1601, if proposals which ners confirmed and approved by the Equation Diamos Mahasalia or Const. giers of Illada Bellefen which met at Al'at to led in Jaruary 1800. Alone that they Mea. Amin's Breant also put forward the 1804 of establishing a University at Benario and applied to the timenment toy a charter. In the thini place, a number of Illadu geoffenen under the guldance of the Hon, Alabaraja air Hamshirat binch fixbalur, k.J.F., of has blaues user conditions the probables of statting on educational institution at 15 nates. The leaders of these movements were terenied that a union of force was seentlal, and in April 1911 Sirs, Resant and the Hon, Fee hi Madan Mohan Malashya met at Allohal ad to complete possible lines of agreement. This meeting was followed shortly afterwards by another, wher it was agreed that the first gots erning body should consist of representative of the Bludu community, Mr. Recant and representative trustees of the Central Riedo College and also that the Theological familia should be entirely in the hands of Hindus. At the same time Mrs. Because agreed to withdraw her petitive for a charter which was then before the Secretary of State. At subsequent meetings product over by the Maharaja Bala-dur of Darbhangs a death constitution was arranged and it was decided to wait upon the Hon. Member for Education and by before time, deputations for the collection of force were instituted and these yielded the leading centres in India. The result was most carrefactory. Amounts, big and small, were pur-mised not only from India, but from Indians to far affeld as Borneo, Mauritius and South Africa; and besides Hindus of all denominations and stations in life, some Malemedans, and a few Europeans, official as well as unofficial, have promised to contribute.

Government Approval.—In October 1911, Sir Harcourt Butler wrote a very sympathetic letter signifying the approval of flovernment to the scheme and fodicating the conditions had down by the Covernment of India—

1. The Hindus should approach Government

in a body, like the Mahemelans.

2. A strong, effected and financially cound college with an adequate Lumpean staff should be the task of the scheme

3. The University should differ from existing Indian Universities by being a teaching and residential institution and by offering religious instruction.

The movement should be cuttrely edu-entional,

b. There should be the same measure of , Government supervision as in the case of the proposed University at Aligaria.

It was subsequently added that a sum of leed value of the properties transferred in of healthy co-peration. Moreover, trust and the perpetual grants made by the constitution is in accord with the 4 may be included.

objects of the Colsevelly it

- 彰 第4分444次,建一种人种一类数个部位的人 pear you are you read attraction in a क्षण से प्रतादात्र कर हुए। वर्णकारो हो से हैं हैं किरोड़ क्षण केमले की मुलावर्णकी हैं से हैं हैं हैं की होता की लेंकिन केमले सर्व की की की and great to the accient cities of Inch.
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- The wife acres and different at the profes the section and participal at his working the with the precionary to teatrons at the energy through a for the Butter trope in tured a me. ? Prantis Traffettal second on oil stor or wells
- 4. To grow, to the feeting by at et 1 to grittle by maktur entigen und an Internal fact of education.

Penposed faculties with a bitter t Harring Butter the Maturate Balin's Darf Lorden for given an entitle wift the gir formittee, which will be broken a first mind at The log, Arts, believe chain soit At and law. The mitual; event the first r will be to fater the state of cancers a literature It is proposed to the wife of liferative. It is grouped he prome as a soft fire with a Birty an browkit be found will be architect by in this grofessors and this of the old place. The familiary and before will with first the present a linear last down by the earlier units. The study of some special branch of her education will be best managed up I heading Appli d secure which will be exc into a Faculty of Technology in due i The Parally of Law will operation in the law and it easily from estated is are is layed also that in contro of time the to Paralthe or Colleges of Agriculture, merce, Medicine, suggery and other in at knowledge such as Music and the Pin-

Proposed constitution.-In July, 19 Harcourt Butler addressed a letter tothe rainh of Barbhangs, in which he state the floremment of India and the Bigget State had come to the conclusion that is form of constitution would be to conticution the Lieutenant-Governor of the United sinces ex officio Chancellor of the Uni with restain opportunities for giving and certain powers of intervention and e "The Hindu University," he wrote, "I not empowered to affiliate colleges from a will be imperial in the cence that sub-regulations, it will admit students fro parts of India, on the other hand it r localised in or by Benarcs. There v obvious advantages in having as Chancthe University the Lieutenant-Governor province who is also Chancellor of the Alli University and who will be able to help t late the work between the two, to secur by the Government of India.'

The powers which, in the opinion of Government, it is necessary to reserve to the Chanceller To meet the recurring charges, a permanent were caumerated. Some of these had been ungaseted by the University Committee, others here emergency powers which inight never be accurrisf. The principle underlying them underlying them the interest of the rising generation are to have the same recognition at the lands and the present the Government must be in a forwarment as these greated by the constitutions. and the parents, the Government must be in of Government as those granted by the existing poperation with University and in a position Indian University and secure sound finance. of Statutes the University the Interest of the Government and the students are provided. dentical.

ne narcour butter said :--" In order to meet of a certain examiner, and the rabing of the lie rentiment of the subscribers it has been scale of remuneration of the staff. This University shall be called versity grows out of the present Hindu University the Benarcs Hindu University, it will have sity Society, which is now dissolved and all no relicious test and will be open to students its property, rights, powers and privileges are to vest in the Benarcs Hindu University, are to vest in the Benarcs Hindu University, to the compulsory for any but Hindus. It will be seen from the above that the Act will also be a teaching and residential university, stipulates that the University shall commence with The terms mentioned above represent the conditions, the acceptance of which is a necessary precedent to the elaboration of any detalled reheme.

The Bill Passed.

On the hasis of these principles further diseussion took place between the Education Member of the Government of India and the promoters of the University, and by degrees complete agreement was reached, A Bill embodying this agreement was introduced into the Imperial Legislative Council in 1916 and passed at the closing ression of the Council. For a summary of this debate the reader is referred to the rection which records the work of The Imperial Legislative Council (q.v). The cardinal features of the Art are as follows :-

It establishes and incorporates a teaching and residential Hindu University at Benares. Hert of all, it creates a corporation sole of the University. The portals of the University are "open to persons of all classes, castes and creeds;" but provision shall be made "for religious Instruction and examination in Hindu religion only;" this instruction is compulsory in the case of Hindra. Special arrangements re to be made for the religious instruction M Jain or Sikh students. The Governor-General of India for the time being shall be the Lord Rector, the Licutemant-Governor for the sime being of the United Provinces of Agra and Oudh shall be the Victor, who has the power to inspect the University and its colleges; and to annul the proceedings of the University if they are found to be not in conformity with this Act, Statutes and Regulations. The this Act, Statutes and Regulations. The authorities and Officers of the University are named to be (1) The Chanceller; (2) The Pro-Chanceller; (3) The Vice-Chanceller; (4) The Pro-Vice-Chanceller; (5) The Court; (6) The Council; (7) The Senate; (8) The Syndicate; (9) The Faculties and their Deans; (10) The Registrar; and (11) The Treasurer. In administrative affairs of the University, the Court is the supreme governing body and has the power to review the acts of the Senate. The executive body of the Court is called the Council.

aid their parents in this matter are necessarily, General in Council has extensive power to act in cases of emergency, riz., the removal of any In concluding the letter referred to above, member of the teaching staff, the appointment for Harcourt Butler said; "In order to meet of a certain examiner, and the raising of the

> stipulates that the University shall commence with an endowment of fifty lakis of rupecs, Sums aggregating approximately Rs. 82 lakis have been promised, and Rs. 60 lakis paid. The Government of India have undertaken to make an annual contribution of a lakh of rupees.

> Foundation stone laid .- The foundation Foundation stone inta.—inc tournation stone was laid in February, 1916, by H. E. the Viceroy. The Mahamja of Darbhanga, as President of the University Committee, read an address of welcome in which he recounted the history of the scheme and H. E. the Vicercy in his speech said:—"It is the declared policy of the Covernment of India to do all within their power and within their means to multiply the number of universities throughout India, realising, as we do, that the greatest boon Govern-ment can give to India is the diffusion of higher education through the emation of new universities. Many, many more are needed, but the new universities to be established at Ducca, Bankinger, soon to be followed. I Benares, and Bankipore, soon to be followed, I hope, by universities in Burms and the Central Provinces, may be regarded as steps taken in the right direction. Here at any rate in this city is a case where we can all stand together etty is a case where we can an stand together upon a common platform, for no one can dispute that the Benares Hindu University will add to the facilities for higher education and take to some extent the pressure off from the existing institutions, while it is the proud boast of at least one of those who have so successfully engineered this movement that the degrees of the Benares Hinda University shall be not only not lower but higher in standard than those of existing universities. It has even been claimed that this university will only justify its existence when the education given within its precincts shall make it unnecessary for Indian students to go to foreign countries for their studies and when such expeditions will be limited to advanced scholars and professors who will travel abroad to exchange ideas with the doctors and learned men of other continents in order to make the latest researches in all branches of knowledge available to their own alumniat Benares."

Denominational character.-Speaking of the denominational character of the University, executive body of the Court is called the Council. His Excellency said:—"There are some who The Senate is the academic body of which shudder at the very word denominational and some who itself to new deportures of any kind, the subscriptions to be one slock for a re-Continuency has mixed around such founds in Amelian had been conferred from 20.400 sec-England and educational problems have a way eribers, of micha 3"a person but ruch port of effecting up more felling than almost any same of the best or more. The first exist, other rocked question. I do not think it is tadis bed and a countrie countries, tath a unnatural, for their imputation cannot be year, the explain sable of which at the rule executerated. If you realise that the tilpret of percent each possible, of an educational against must be indicate out. The distinction of the countries of the countries of the countries of the countries. from every mon and month the very best that a regulating of several field them in that the frial oft may be dealing of which are not argued at to the left, the Viscot of the Indian that the friends of them in the Indian that in the Indian should be the Indian should be the Indian should be the Indian should be the Indian that the Indian should be the Indian should members if you realise this is it not restored that must of he its discrepantive. The Rindrich members if you realise this is it not restored that must of he its discrepantive. The Rindrich members with might and main to attain. University bestery about protected a subsectional be content with only the very best so that it mirror to a rife for regularities, which were not not natural that the stelle should produce a Ripon was a sagrejous from when, he depressed corbs bus licent nonumer and item of blimbs which alone he ure d can secure the few deve-

new departure of a denominational university Is not quite such a novelides as some of you may think, for the Education Commission ap-pointed by Lord Ripon, while recognising that the decland neutrality of the State forbile its connecting the institutions directly maintained by it with any one form of faith, anggated the establishment of institutions of widely different types in which might be inculated such forms of fifth as various wellons of the community may accept as desirable for the formation of chineter and awakening of thought. They recognised the danger that a denominational college runs some risk of confining its benefits to a particular section of the community and thus of deep ning the lines of difference already existing. I am not terrified by the body of religious intolerance. Hather do I think that a deep belief in and reverence for one's own religion ought to forter a spirit of respect for the religious convictions of others and signs, are not wanting that the day is dawning when tolerance and mutual good-will shall take the place of fanaticism and hatred."

First Meeting of the Court. - In the absence of the Maharaja Scindia of Owalior, the Mahamia of Benarcs presided at the first meetlng of the Court of the University in August, a support which will put us in 12 for giving a 1010. The Vice-Chancelor (Dr. Sundar Lab in build up, at no distant dite, anisotreention and conclude statement said that the total sum promised will be a source of strength and any of the University, including the valuation of annulties granted by the rulers of Indian States it is associated."

In the sense that subjectively the valuation of the sum of the sense that subjectively the valuation of annulties granted by the rulers of Indian States it is associated."

In the sense that subjectively the valuation of the sense that subjectively the valuation of annulties. For the sense that subjectively the subjective of annulties are the subjectively the subjective of the sense that subjectively the subjective of the su amounted to Rs. 96,52,496. Of this sum, including the valuation of amountles, Rs. 59,74,337 had been released. Excluding schools, offices

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机工作排列流动 Regulation, without fait eit. finally will day they require firther enables a fo injointy close of opinion and consisting ? The tion of the first first inferent of leafs and qualitate at feets cannot be with at by theory and of the visitor of the Calverty, Section in and discussion. Education to not an exact of the Act has good a dist for a solely of personne and never will be. We must also have "while be feature as directed by the Gasonways." respond and a fine the consider that Lant Convenienth and that, in he wild, its just Ripon was a saguejous man when he deposited must exclus his previous agreemal. According that the educational system of this country large, a consulting consisting of the Hor, by the Sankaran Nate, Member for fall-aften, and Mel' cated, as he was neverting of a dor, that sariety tharp, the Edwarton Commissioner, His Edwarfe. Michain, beerdary to therement of Indiain loguent of every side and ency aspect of ration. the Direction In particular, its, O'Decretias a richarders.

In a character, and De sonds and considered various could forward to characters and the sonds forward. "I should like to remind you too that this and the matter is now receiving the receiving tion of the Government of fights.

Finances. In concludes the Vir Clancollegand. - "The funds that we have collected Virt. Class. have enatted not o provide the permanent minimum cudowment of fifty faills which we are required by the Act to provide for the resurfing expenditure of the University, We have also morey in hand to ray for land which is being acquired for us. But the many educational and e-id-attat buildings, which it is absolutely necessary for us to ruct in the immediate future, will cost at the lowest competation a sum of thirty lakhs, and we have only a fraction of this amount in our hand. Resides this sum we standin model a great deal more normy in order to develop what is called the modern side of University education, for you know, our saim is to combine of and new ideas of the University, that is, to both up a University which will not merely promote literary and philonothical studies but will also provide instructionat ! and training in the more fruitful applications taims dence to industries, both acticultural and a pecteta facturing, and the liberal help, which theron that the and people of India have extended a les to come wresty in the post, encourages the of the United shall receive the necessary support of the University of the United States of the United States of the University of the United States of the University of the United States of the United States of the United States of the United States of the University of the Univers

The Chancelles India, on the other hand it will Mahamla of sed in or by Benares. There wi or other bodies, who had paid in their collec- H. H. the wous advantages in having as Chancell

he University the Lieutenant-Governor of province who is also Chancellor of the Allah University and who will be able to help to fato the work between the two, to secure corresponding advantages and to foster a t of healthy co-operation. constitution is in accord with the ger polley of decentralization which is now pur by the Government of India."

The Mahomedan University.

The movement in favour of transforming that the new university should not have the Alicarh into a teaching and residential Unipower of additional Moslem institutions in other versity was started as early as the end of last parts of India. Thereafter the project lapsed. versity was started as early as the end of last century. It was hoped that the foundation of such an institution would awaken among Mahomedans the memory of their old season of learning and prove an incentive to them in of fearning and prove an incentive to them in the future to regain the intellectual eminence from which they seem to have fallen of late from which they seem to have taken of late years. Some time ago it was obsorred in a furnishment report that the backwardness Propriment report that the backwarmess in exhibition on the part of Mahomedan was due parties to poverty, partly to indifference their the same as these of the land water not

sind faith of Islam.

The project of the project of

parts of India. Thereafter the project lapsed. In 1015, when the Hindu University movement crystallised in the Hinda University Act further steps were taken to come to an agreement with the Government of India. The Government however laid down at once that the principal of the principal o hies governing the constitution of the Hindu Union the Hindu Union of Measify would be applied to all other institutions for the armore one versity would be applied to all other institutions of a like character, and that they were not prepared to consider any proposals, or to this governing rule. On October 15th, 1015, a was light at Alicarn, under the presidency of and partly to their educational wants not being the same as those of the remainder of the population amongst whom they live. In a remarkable awakening on the part of Maho. However, it is stated that medans hele awakening on the part of Maho. However, it is stated that during the last direction has part of Maho. However, it is stated that during the last decade, when been witnessed of pupils under instruction in all classes of the fine Rola of Moslem University association the post of the Moslem University of the lines of the Hindu University. The resonance of the Moslem University on the lines of the Hindu University. The resonance of the Moslem University on the lines of the Hindu University. The resonance of the Moslem University on the lines of the Hindu University. during the last decade, when the total number of pupils lader instruction in all classes of the lines of the Hindu University on the other hand in the matter of higher education notwiths remain well below that Chan, K.O.S.I.V. years and of Sir Syed Alimed a liberal clustering as the almost of place the relative community and in 1875 a school as opened which three years later was considered that there is no propagate of the Hindu University. The resonances, If was the aim of Sir Syed Alimed a liberal clustering as the large control of the opened in the proceedings was and an official meeting a large number of Indian Moslems as opened which three years later was considered in the resonance of the Hindu University. The resonance of the Hindu University in the proceedings was and an official meeting a large number of Indian Moslems as opened which three years later was considered in the Alignan Moslems and the Alignan Moslems are considered in the Alignan Moslems and the Alignan Moslems are considered in the Alignan Moslems and the Alignan Moslems of the Government of India agreeing to any Inhomedan community and in 1875 a school as opened which three years later was concerned. Nor is there is no prospect of the College of the College of the Government of India agreement of India agreement. Nor is the the filter of the Government of India agreement of India agreement. Nor is the the filter of the Government of India agreement. Nor is the the filter of the Government of India agreement. Nor is the the filter of the Government of India agreement. Nor is the the filter of the Government of India agreement. Nor is the the filter of the Government of India agreement. Nor is the filter of the Government of India agreement. Nor is the the filter of the Government of India agreement of India agreement. Nor is the filter of the Government of India agreement of India agreement. Nor is the filter of the Government of India agreement of the Government of India agreement. Nor is the filter of the Government of India agreement. Of the Government of India agreement of the Government of India agreement of Ind finds subscribed should be devoted to other educational objects, such as scholarshim; but this is opposed by some of the subscriber, who maintain that they subscribed to a United this purpose the folds are not to be devoted danors.



Local Self-Government.

Throughout the greater part of India, the village constitutes the primary territorial unit of Government organisation, and from the

"The typical Indian village has its central residential site, with an open space for a pond and a cattle stand. Stretching around this nucleus lie the village lands, consisting of a cultivated area and (very often) grounds for grazing and wood-cutting... The inhabitants of such a village pass their life in the midet of these controls are the controls of the control of the controls of the control of the cont simple surroundings, welded together in a little community with its own organisation and government, which differ in character in the various types of villages, its body of detailed customary rules and itslittle staff of functionaries, artisans and traders. It should be noted, however, that in certain portions of India, e.g., in the greater part of Assam, in Eastern Bengal, and on the west coast of the Madras Presidency, the village as here described does not exist, the people living in small collections of houses or in separate mestcads" .- (Gazelleer of India.)

The villages above described fall under two

Types of Villages .- "(1) The 'severally' or ralyatwari village, which is the prevalent form outside Northern India. Here the revenue is assessed on individual cultivators. There is no joint responsibility among the villagers. though some of the non-cultivated lands may be get apart for a common purpose, such as grazing, and waste land may be brought under the plongit only with the permission of the Revenue authorities, and on payment of assessment. The village government wests in a hereditary head-man, known by an old vernacular name, such gence, and freedom from internal feeds. These as patel or relif, who is responsible for law and powers might be increased gradually as results order, and for the collection of the Government; revenue. He represents the primitive headship of the tribe or clan by which the village was originally settled.

"(2) The joint or landlord village, the type prevalent in the United Provinces, the Punjab and the Frontier Province. Here the revenue was formerly assessed on the village as a whole, its incidence bring distributed by the body of superior proprietors, and a certain amount of: collective responsibility still, as a rule, remains The village site is owned by the proprietary body, who allow residences to the tenantry, artisans, traders and others. The waste land is allotted to the village, and, if wanted for cultivation, is nutitioned among the shareholders. The village government was originally by the punchaget or group of heads of sup rior families. In later times one or more headmen have been add d to the organisation to represent the village in its d alings with the local authorities; but the artiibial character of this appointment, as compared with that which obtains in a raivatuarl village. is evidenced by the title of its hold r, which is Municipalities.—The Parsid any town generally lamberder, a vernacular derivative and some form of Municipal administrative from the Fundish production. from the English word 'number.' It is this type first under Royal Charters and later made of village to which the well-known description statute, from comparatively carry times but the Stell White Comparatively (arrived by Stell White Comparative by Stell Wh in Sir H. Maine's Village Commenties is alone outside of them there was practically no atter?

Village Autonomy.—The Indian villages formerly possessed a large degree of local autonomy, since the native dynastics and their villages are built up the larger administrative local representatives did not, as a rule, concern entities—tabils, sub-divisions, and districts. themselves with the individual cultivators, but regarded the village as a whole, or some large landholder as responsible for the payment of the Government revenues, and the maintenance of local order. This autonomy has now disappeared owing to the establishment of local, civil and criminal courts, the present returns and police organisation, the increase of communications, the growth of individualism, and the operation of the individual raivatuaris strong which is extending even in the north of India. Nevertheless, the village remains the first mit of administration; the principal village functionaries—the headman, the accountant, and the village watchman-are largely utilised and paid by Government, and there is still a certain amount of common village feeling and interests.

Punchayets.—For some years there was an active propaganda in favour of reviving the village council-tribunal, on Punchayet and the Decentralisation Commission of 1908 made the following special recommendations:-

"While, therefore, we desire the development of a punchayet system, and consider that the objections urged thereto are far from instimountable, we recognise that such a system can only be gradually and tentatively applied, and that it is impossible to suggest any uniform and definite method of procedure. We think and definite method of procedure. that a commencement should be made by girlas certain limited powers to Punchayats in the villages in which circumstances are most favour warrant, and with success here, it will become easier to apply the system in other villages Such a policy, which must be the work of many years, will require great care and discrition, much patience, and judicious discrimination between the circumstances of different villages; and there is a considerable consensus of opinion that this new departure should be made under the special guidance of sympathetic officers.

This is, however, still mainly a question of fature possibilities, and for present purposes !! is miner stary to refer at greater length to the subject of village self-government. An Act was pass d in 1912 to provide for the establishmen of purchasets in the Punjab; but it was confered to damit the areas for which these bolles would be established would be larger than village, and their functions are limited to the disposiof p tty civil suits. In the Punjab, it may be mentioned, village self-government survives to a considerable extent, on a basis of customand the desirability of bringing it under statutory regulation has been questioned.

applicable, and here the co-proprieters arone outside of them there was practically no atterful applicable, and here the co-proprieters are in an annual trail explainten before 18:2. An Att formula a local oligarchy with the bulk of the pass did that year for B read, which was fracting population as tenants of labourers under iteally inoperative, was followed in 1850 by at them."

Act applying to the whole of India. Under

this Act and subsequent Provincial Acts a large number of municipalities was formed in all provinces. The Acts provided for the approximate of completioners to manufacture to completioners to manufacture to completioners. appointment of commissioners to manage municipal affairs, and authorised the levy of various taxes, but in most Provinces the commissioners taxes, but in most Provinces the commissioners were all nominated, and from the point of view of self-government, these Acts did not proceed for. It was not until after 1870 that much profess was made. Lord Mayo's Government, in their Resolution of that were introducing ries was made. Loru Mayo's Government, in their Resolution of that year introducing the system of provincial finance, referred to the necessity of taking further steps to bring local necessity of taking further steps to bring local interest and supervision to bear on the manage of tunds devoted to education, sanitation, ment of funds devoted to education, sanitation, ment of minus devoted to education, sanitation, medical charity, and local public works. Kee Municipal Acts were passed for the various Provinces between 1871 and 1874, which, among rrovinces between \$511 and 1014, which, among other things, extend d the elective principle, but only in the Central Provinces was popular but only in the Central Provinces was popular representation generally and successfully interferentiation generally and successfully interference. In 1881-2 Lord Ripon's Government issued orders which had the effect of greatly estending the principle of local self-government. extending the principles to the greatly altered Acts were passed in 1833-1 that greatly altered Acts were passed in 1883; that greatly altered the constitution, powers, and functions of municipal bodies, a wide extension being given to the elective system, while independence and the elective system, while independence and responsibility were conferred on the committee of many towns he permitting them to elect a responsibility were conferred on the committees of many towns by permitting them to elect a private citizen as chairman. Arrangements were made also to increase municipal resources and financial responsibility, some items of provincial revenue suited to and capable of development under local management being transferred, with a preportionate amount of previous ferred, with a proportionate amount of provincial expenditure, for local objects. The general principles thus had down have continued to govern the administration of municipalities down to the naministration of municipalities down to the present day. In soveral Provinces there are, besides municipalities, "notified areas," i.e., small towns which are not fit for full municipal institutions, but to which parts of the Municipal Acts are applied, their affairs being admini-Acts are applied, their affairs being admitto be regarded as embryo municipalities.

Local Bonrds.—The establishment of boards of realing with local affairs in rural are s is a for dealing with local affairs in rural are s is a second relatively recent development. No such beards relatively recent development. No such beards are sent to the finds for local improvements had been rafsed funds for local improvements had been rafsed inds for local sendous, roads and discount of the system of raising cesses on land funds devoted to local schools, roads and discount or purposes of this description was introduced for purposes of this description was introduced to purpose of this description was introduced to rurpose set of this description was introduced to rurpose of this description was introduced to committees were to administrate the proceeds of committees were to administrate the proceeds of committees were to administrate the proceeds of the financial decentralisation and purposes, partly due to growing needs, and must of legislation for local administrative of the financial decentralisation for local administrative and the constitution scheme of Lord Mayo's Government, partly the result of the financial decentralisation scheme of Lord Mayo's Government, and the constitution of local bodies, in some cases with an election of local bodies, in some cases with an election of local bodies, in some cases with an election of local bodies, in some cases with an election of local bodies, in some cases with an election of local bodies, in some cases with an election of local bodies, in some cases with an election of local bodies, in some cases with the system was reorganised in accordance with the orders of 1891-2 the existing local committees were to be replaced by a system of boards.

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extending all over the country. The lowest administrative unit was to be small enough to secure local knowledge and interest on the part of secure local knowledge and interest on the part of secure local knowledge and interest on the part of secure local knowledge and interest on the part of the control of a general district board, and to the control of a general district board, and to ment of measures common to all. The non-ment of measures common to all. The non-ment of measures common to all. The non-ment of measures was to prepondente, and the case of municipalities, while the resonance of manicipalities, while the resonance of manicipalities of the boards were and financial responsibilities of the boards were and system being imposed in all provinces, and a system being imposed in all provinces, and a large discretion was left to Local Governments, in the systems introduced in different parts of the systems introduced in different parts.

Morassii Municipalities.—The total number of municipalities has altered little for many parts and New municipalities have been been or municipalities has altered little for many years past. New municipalities have been formed from time to time, but there have also been removals from the list. There was, indeed, but there marked decrease according to the last a rather marked decrease according to the formula teview (1992-12) and the number in decembal review (1992-12) and the number in a rather marked decrease according to the last decennial review (1902-12) and the number in 1911-12 was actually less than it was thirty years earlier. This result was brought about by the reduction to "notified areas" of a considerable number of the smaller municipalities in the Punjab and United Provinces. The figures the sense the constitution of the municipalities in the runjan and united Provinces. The ugares showing the constitution of the municipalities call for little comment. Taking them as a whole, the proportion of elected members was in 1011-12 the proportion of elected members was in 1911-12 rather more than a half, whereas in 1901-02 rather more than a half, whereas in 1901-02 rather more than a half, whereas in 1901-02 rather more than a lightly less. The proportions of non-tit was slightly less. The proportions of non-tit was a lightly less. The proportions of non-tit whereas and Rangoon and in Reneal forcluding Madres and Rangoon and in Reneal forcluding are in the majority in the cities of Bombay, Madras and Rangoon and in Bengal (excluding Madras and Rangoon and in Bengal (excluding Majorisa, and the Central Provinces, in the Korthvinces, and the Central Provinces and Baluchistan, on West Frontier Province and Baluchistan, on the other hand, there are no elected members, and in Burma they form a small minority. Non-add in Burma they form a small minority. And officials ontnumber officials everywhere. officials ontnumber officials everywhere, and officials outnumber officials everywhere, and indians outnumber Europeans to an even greater degree, except in Rangoon. Taking the municipalities individually, some of the commissioners of the commissioners of the commissioners. cipatities individually, some of the commissioners are elected in the great majority of cares. Rearrescription in the larger municipalities is in presentation in the larger municipalities is presentation in the larger manucipanties is in general by wards or classes of the community, or both. Voters must be residents not below or note. Yours must be resident no below a specified age, and property or status qualifications are generally laid down. The Chairman or the same free day in the Municipal Corporation is sometimes nominated under the orders of the Local Lines nominated with the corporation by the corporation of the Local Lines and Line times nominated under the orders of the Local Government, but more often chosen by the com-instincers from among themselves. The only provinces in which there has been in the past a large proportion of elected non-official chairmen large proportion of elected non-official chairmen are Madras, the Central Provinces, and the two Bengals; but Bombay has now to be two Bengals; to the Bombay has now to be added to the list, in view of the changes made in that province in the closing years of the decade, in that provinces in the closing years of the exercise of Various provisions exist as to the exercise of various provisions exist as to the exercise of the control in Government, particularly as records various provinces particularly as regards control by Government, particularly as regards finance and appointments. No loans can be finance without Government sanction, and generally speaking municipal budgets, and alterations in taxation, require the function of the Local Overnment, or if a Committioner. Proposals furnithed with water works. Tolls on roots for giving municipal committees a larger degree and ferries and lighting and concernancy rates of independent of the residence of the residen of Independency were put forward by the Decen-trilliation Commission, and some action on these lines has been taken. Government may

Municipal Revenues.—In the provinces in which octrol is levied generally, it is the most important source of income. The cetrol duties have admitted disadvantages, but they are faultine through lone mage to the inhabi-tants of the North and West of India. The possibility of abolishing them was under condderation during the last decade, and is was decided in the United Provinces to take this step In many municipatities, but the alternative of direct taxation is not a popular one. Precautio. are taken to limit the tax to articles actually consumed in a town, and to prevent it from becoming a transit duty. The list of dutiable articles contains in each case only staple articles of local consumption end roofs in transit arallowed to press in bond or receive a refund of the duties on leaving the town. Articles of food are the most important class of goods subject to octroi taxation.

Incidence of Taxation.—A tax on houses and lands is levied to some extent in all provinces, and is the main source of municipal revenue where there is no exten.

contribute to the receipts in most provinces. The average inclience of municipal invalion these lines has been taken. Government may just average incidence of involving largering theoretic in 1911-12, provide for the performance of any duty which I for little India, as a where, was R. 2002, the commissionize neglect, and may suspend the literature of average in the Presidency towers, where the figures are higher, the provinced of powers. West Proutice Province and Rs. 2:38 in the Punjab, to Rs. 1:35 in Madra, and Rs. 1:02 in Coorg. Other sources of revenue are municipal lands and buildings, conversary receipts which than the rates, educational and medical feet, receipts from markets and shazhter-houres ta very Important Item in Dermo), and Interest on investments.

Municipal Functions.—Municipal functions are elastified under the heads of public rafety, health, convenience and instruction. Within these heads the dutlet are many and varied-"ypeuditure, agart from that on general ad-mili-stration and collection, which amounts to cometation and councilon, which allowed the total-is similarly classified. The principal normal functions of municipalities now are the construction, taket and fighting of streets and rods, and the provision and mulntenance of public and innicipal buildings; the preservation of the habite health, principally with reference to the article of medical rolls, vaccination, smill-ion, drainings and water-supply, and measures against subjects; and algorition. all provinces, and is the main source of and measures acainst epidemies; and chrestopper and municipal revenue where there is no octrol, particularly belinary education. Money is and vehicles, are gravefully levied, as also is a scheme, the core which is too large to be water-rate in the large towns that have been defrayed from o-dinary revenues.

THE PRESIDENCY TOWNS.

The corporations of the Presidency towns occupy a special position, and are constituted under special Acts.

Calcutta.—The municipal administrative of Calcutta is regulated by the Calcutta Municipal Act of 1899, which replaced an Act of 1859, clipal Act of 1893, which replaced an Act of 1883, the Morking of which had not been altogether "Mislactory. The Corporation, as remodelled by the Act of 1892, consists of a Chairman, appointed by the local Government, and fifty commissioners, half of whom are elected at triennial ward elections, while the remainder are appointed, four each by the Bengal Chamber of Commerce and the Calcutta Trades Association, two by the Port Commissioners, and fifteen by the local Government. The Act also constitutes a smaller body, the General Commissioners consisting of the Chairman with twelve of the commissioners, four elected by the ward of the commissioners four elected by the ward commissioners, four elected by the other commis-sioners and four appointed by the local Govern-ment. There are various special committees and sub-committees. An amending Bill has ! published.

The entire executive power is verted in the Chairman, to be exercised subject to the approval or sanction of the Corporation or General Committee, whenever this is expressly directed in the Act. To the Corporation are reserved the right of fixing the rates of taxation and such general functions at can be efficiently performed by a large body, while the General Committee stands between the deliberative and executive

authorities, and licals with those matters that are III-adapted for discussion by the whole Cor-poration but to important to be left to the disposal of the Chairman alone. Power is re-served to the local Government to require the municipal authorities to take action in certain circumstances, and their sanction is required to large projects.

Bombay.-The municipal corporation of Bombay, which formed the model for the new Calcutta constitution, dates in its main features from 1872 and continues to be regulated by the Act of 1883 as amended. Some important changes were made by the City of Bombay Police Changes Act of 1907, which relieved the corporation of the police charges of the city, and made over to them in exchange further responsibility for primary education, medical relief and vaccination.

The Corporation consists of 72 councillors, The Corporation consists of 72 conneitors of whom 36 are elected by wards, 16 by the justices of the peace, 2 by the Fellows of the University, and 2 by the Bombay Chamber of Commerce, the remaining 16 being appointed by Government. The general municipal covernment is vested in the Corporation, while the ordinary business is transacted by a Standing Committee of 12 councillors, 8 appointed by the Corporation and 4 by Government. The by the Corporation and 4 by Government. president of the corporation is elected by the councillors but is not, like the chairman of the Calcutta Corporation, an executive officer. The

chief executive authority is vested in a separate officer, appointed by Government, usually from the ranks of the Indian Civil Service, styled the Municipal-Commissioner, who can, however, be removed by a vote of 45 councillors.

Mndras.—A new Municipal Act for the City of Madras was passed in 1901. By this Act the number of the municipal commissioners, to whom as a body the name Corporation was now applied, was increased from 32 to 36, hesides the President, and provision was made for the appointment of three commissioners each by the Madras Chamber of Commerce and the Madras Trades Association, and of two by such other associations, corporate bodies, or classes of persons, as the Local Government might direct, while the number to be elected as divisional elections was fixed at 20. Under the Act previously in force the total number of elected commissioners was not more than 24. The

remaining commissioners were appointed, as they are under the new Act, by the Local Government, who also appoint the President. The Act of 1901 also introduced various other changes in the law which need not be specially noticed; it was modelled to a large extent on the Calcutta Act of 1899. Executive nutherity is ve-ted in the President, who is removable under the existing law, by a vote of 28 commissioners. A Standing Committee, consisting of the president and eight other commissioners, is mainly concerned with financial and building question. The President, like the chief executive officers in Calcutta and Bombay, is usually a member of the Indian Civil Service. The number of persons enrolled as voters in 1911-12 was 9,824 rather more than 6 per cent. of the total adult male population. The control of the Local Government over the municipality has hitherto been more stringent than in the other Presidency towns.

DISTRICT AND LOCAL BOARDS.

The duties and functions assigned to the municipalities in urban areas are in rural areas entrusted to District and Local Boards. The systems of rural local government in the various provinces differ widely. The Madras organization, which provides for three grades of local boards, most nearly resembles the pattern set in the original orders. Throughout the greater part of that province important villages and groups of rilinges are organised as "Unions", each controlled by a PARCHAYAT. These bodies receive the proceeds of a light tax on houses, and spend them mainly on sanitation. Next come the Taluk Boards, which form the agency for local works in the administrative sections into which the districts are divided. Finally, there is the District Board, with general control over the local administration of the district. In Bombay there are only two classes of boards, for districts and TALUKAS respectively. In Bengal, the Punjab, and the North-West Frontier Province the law requires a District Board to be established in each district, but leaves the establishment of subordinate local boards to the discretion of the Local Government. Bengal Act authorises the establishment of village Unions also, but this provision has not been very largely used. The United Provinces Act formerly in force directed the establishment of district and sub-district boards, but the latter were abolished, as mentioned below, in 1906. The system in the Central Provinces bears some resemblance to that which prevails in Madra, the villages being aggregated into "circles", and the circles into "groups", each of which has a Local Board, while for each district there is a District Council having authority over the Local Boards. In Assam district boards have not been introduced, and independent boards are established in each sub-division. Neither district nor sub-district boards exist in Burma, or in Baluchistan. District boards m Durina, or in Daucensian. District Boards were started in Lower Burma in accordance with Lord Ripon's Local Self-Government Resolution of 1882, but the members took no active interest in them, and they died out after a few years. The district funds are now administered by the Duputy Commissioners of districts.

Elective Principle.—The degree io which the elective principle has been introduced varies greatly in different parts of India; but there is a considerable proportion of elected members everywhere, except in the North-West Frontier Province, where the system of election was abolished in 1903. On the whole, however, the principle of representation is much less developed in rural than in municipal areas. In Madras the elective system, previously applied to the district boards only, was extended to the Taluk Boards in 1909. In the United Provinces and the Central Provinces there is a substantial majority of elected members.

anbstantial majority of elected members.
Chnirmen.—The various Acts usually leave it to the Local Government to decide whether the Chairman of the district board shall be elected or nominated. In most provinces the Collector has, as a general rule, been appointed, though in the Central Provinces the president is elected, and is usually a non-official. In the United Provinces election, subject to the veto of the Local Government, was prescribed by the Act of 1900, but in practice the Collector is chosen. As regards the subordinate boards, the Jaw and practice vary. Generally speaking, the sub-district boards age on the footing of subordinate committees or agencies of the district boards, with very limited powers and resources; but in Madras they exercise independent authority, subject to the general control of the district boards, in regard to the less important reads, primary education, medical work, and sanitation.

Provision is made, on much the same lines as in the case of municipalities, for the exercise of control in certain directions by Government or its officers.

Sub-Bistrict Boards.—The Decentralization Commission, having in view the admitted failure of sub-district beards as a whole, under existing arrangements, except in Madras and Assam, put forward proposals for making them the principal agencies of rural board administration by giving them independent resources, separate spheres of duty, and large responsibilities. Proposals for giving the district boards a larger measure of independence were also put forward.

of income open to rural boards are much narrower and less clastic than those of the municipalities. The greater part of their revenue is derived from a cess which they are empowered to levy on the land, and which usually does not exceed one anna in the rupee on the annual reat value (or, in ryativari provinces, the Government assessment). The cess is ordinarily collected by Government agency along with the land revenue, and varies in amount with the latter. Since 1905 the income derived from the land cess has been supplemented by a special Government contribution calculated at the rate of 25 per cent. of that income. Sub-

Revenue and Expenditure.—The courses | stantial amounts, apart from this special con-income open to rural boards are much nar- | tribution, are granted to the district boards by the Local Governments for various purposes. Apart from receipts in connection with their educational and medical institutions, and markets, the only other important routees of independent revenue are pounds and ferries, and, in Madras, road toils. Except in Madras, the sub-district boards have generally no independent sources of income, and merely receive such moneys as the District Boards may allot to them. In Madras the Taluk Boards receive half the land cess levied in their areas, as well as certain miscellaneous revenues.

District and Local Boards.-The following table shows the general emstitution of the boards in each province, the figures in Italies relating to local boards, the others to district boards.

Province.		Number	Total Number	Apr	By ointme	nt.	By Emplo		By Race.		
Acti		Boards.	of	Ex- officio.	Nonit- nated	Elect-	On- ciais.	Non- Offi- cials.	Enro- pears.	Indi-	
Madras	{	25	779	124	203	202	270	000	130	C19	
	{	20	1,052	97	762	773	400	3,243	€6	1,580	
Bombay	- {	20	L53	126	162	215	132	421	71	482	
Domest		245								0.000	
Assam	1	215	3,103	526	1,200	1,392	500	2,533	135	2,985	
Assum		19	318	70	55	164	80	230	135	183	
Bengal		25 72	513 554	134		213	161	202 737	85 37	428 817	
		18		63		407	07			262	
Bihar and Orissa		10	300	100		151	124 ³ 79	266 400		429	
United Provinces	· ·		922	47				C00			
	** ,	48 28 13	1,114	238				843		820	
Punjab	}	77	253	14				200		1,041	
NW. Frontier Pro	ordnao E	5	210	61			61	165		281	
211-116 1-1024411 1 11	, тщ со.	21	521	1 .	140						
Central Province:	s and {	1	1	1		1	01	454	13	508	
Berar,	1	87	1,348	1	347	996	151	1,192	9	1,004	

POLICY OF GOVERNMENT DEFINED.

The Government of India issued on April, therefore received with mixed feelings. Those 23th, 1915, a long resolution dealing with the growth and future of local self-government in India. From what has gone before it will have been seen that the Decentralisation Commission made many and detalled recommendations on this question, and the intention of the resolution was to summarise policy on these points, as well as to complete the chain of pronouncements of policy which commenced with the education resolution and was followed by the sanitary resolution. Owing however to the wide diversity of conditions in India, and the extent to which local self-government must

who expected a declaration of a bold forward policy were disappointed, whilet those who realised the difficulties inherent in the working of the principle until some means of providing the necessary funds are devised realised that it went as far as possible in existing conditions.

The resolution commenced with the expression of opinion that the results on the whole have justified the policy out of which local self-government area. The degree of success varies from province to province and from one part of a province to another, but there is definite and satisfactory evidence that of a growth of a feeling of good elitrankile. be a provincial question, it was not apparently nossible to lay down broad and simple lines, cspecially as in the main the development of local self-government is a question of the provincial three states and no one has suggested whence they shall come, except in the way of realising the local self-government. Exchequer, which is already overburdened. The Resolution was

On a patient, the Government of India decided theirnes. They held this out as the rolley to need the vi w of the local-government or which should steadily be kept in view. to accept the view of the local-government of swaren enough to accept in view, administration as to the degree of property the Decentralisation Commission recomments and Administrations, the recommendation of the Decentralisation Commission recomments and Administrations, the recommendation of the Decentralisation Commission recomments and Administration, the recommendation of the Decentralisation Commission recommendations, where recommendation of the Decentralisation Commission recommendations and the degree of property and the Decentralisation Commission recommendations and the degree of property and the Decentralisation Commission recommendations and Administration Commission recommendations and the degree of property and the Decentralisation Commission recommendations and Administration Commission recommendations and Administration Commission recommendations and Administration Commission recommendation and Administration commission recommendations of the Decentralisation Commission recommendations and the degree of the Decentralisation Commission recommendations and the Decentralisation Commission recommendation and the Decentralisation Commission recommendation recommen

Turning to details the projution showed that of the Co5 Chairmen of Municipalities 222 consisted etcl-cled non-officials, 248 of electral officials, 51 of nominated non-officials, 173 of nominated officials. The election of non-official chalmen has long been used by Indian polinominal doctrial. The election of non-official should remain chalman of every district and chalman has long been used by Indian poll-sub-district board. The total number of ticlass, and there we have been of a new plad district and sub-district boards in 1913 was that the majority of Local Governments are 100 and 536 respectively, with an aggregate in favour of substituting, so far as possible income of £3,787,210 (Rs. 5,08,08,202). In non-official for official chairmen. With regard the rame year they received specially large that the majority of Local Government are 119 and 536 respectively, with an agent in favour of substituting, so far as possible, income of £3,787,210 (18. 5,68,08,202), to the larger municipalities, the hombay system is now very much in favour. This consists in the main of a constitution under which an elected chalman is the mouth-piece of the corporation, while the head of the executive is an official nominated by Government but to levy a railway or trainway cess, in order that the control of the communication which is the proportion of communication of the communicati under the control of the Corporation. Whilst not pressing this system on all Local Govern-1-lid77 ments, the a solution pointed out that it had the advantage of recuring a continuous and strong executive administration by a paid staff, whilst maintaining the corporate control and activity of the municipal board. As to the or an average of \$1,083 or R*, 70,245 a year, gradually relaxed, in the direction of securing This shows a very rapid expansion. Contri-full discretion subject to the maintenance of the buttons from Government have materially prescribed working balance. assisted this expansion. Since 1911, the Govcriment of India have made grants amounting to £3,076,466 (ils. 4,61,47,900), of which the resolution expressed the views of the Government of the control o received their share—the exact figure is not any practicable scheme can be worked onth co-castly accordanable—of the large educational operation with the people concerned, full experi-grants made by the Government of India since ment should be made on lines approved by the 1911, amounting to about £3,087,800 (Rs. 5,98,17,000), of which £820,600 (Rs. 1,21,00,000), are recurring. Municipal boards have been are recurring. Municipal boards have been the matter to the local authorities. With relieved of all charges for the maintenance of regard to the Presidency Corporatolus, the project of all canters of the institutions of the resonant of the recommended province the recommendation that municipalitation Commission recommended province the recommendation that municipalitation commission recommended that the Bombay system of an unofficial chair-ties sliculd be relieved from financial responsions and an official head of the executive should sibility for famine relief and should receive assistance from Government in the case of severe or the principle has been already given effect to regarded it as unsuitable to the conditions or the principle has been accepted. The there obtaining. The Government of India Government of India have also accepted a declined to endorse the suggestion that a Government of India have also accepted a declined to endorse the suggestion that a further recommendation, namely, that assistance are local Government Board should be formed in may legitimately be given by Hovernment to each Province for the control of the local bodies, poorer municipalities which, without it, would in conclusion, the resolution summarised the be unable to carry on the normal standard of policy of the Hovernment of India towards the administration required from them. administration required from them.

control, which is sometimes described as minute the Government of India suggested that the Government has appointed a strong mixed municipalities should have a freer hand with committee to consider the whole question of regard to their budgets, the only check bring local self-government in the rural areas, whose the maintenance of a prescribed minimum report is awaited with great interest.

tion to the di-cretion of the Local Governments. The Local Governments favoured a policy where district and sub-district boards should contain a large preponderance of elected mem-bers. They took the view, in which the Gov-erance of India omeared, that an official grants from the sums allotted by the Imperial resolution analy-ed at some length the proposal that district boards should be empowered to levy a rallway or trainway cess, in order to expedite the improvement of communications. The Government of India have empowered district boards to levy a special extra land cors of three ples in the rupes on the annual rent value of land for the construction of light rallways or tramways, conditional on the proposal stall, whilst maintaining the corporate control obtaining the assert of three-fourths of the and activity of the municipal board. As to the financial resources of the municipalities, it was shown that the aggregate income of the debrutures secured in the board could issue was shown that the aggregate income of the debrutures secured on the railway property for municipalities in existence at the close of when its accounted funds were insufficient. 701 municipalities in existence at the close of when its accumulated funds were insufficient 1912-13 (excluding the Presidency towns and to bear the cost of construction. They also Rangoon) amounted to £3,282,845, or Rs. recommended that the present restrictions on 4,02,42,675 apart from extraordinary recipie, the financial powers of the boards should be prescribed working balance.

local government or administration concerned." With this general recommendation they left the matter to the local authorities. With be generally followed. Bengal and Madras agreed generally with the proposal, but Rangoon regarded it as unsuitable to the conditions On the very important subject of financial atraid to take them in the cause of progress.

Since this resolution was issued the Bombay

		Lo	cal	Go	ver	71711	ent 	S	tat	isli	cs,				٠	~	_	
Incidence	of Muni- clpal Taxation per head,	, (d.	13 4	10 10	e1 10	15 8	-	3	1 8	cı cı	es ec	††	61	es	4 10	2 10	5	
, 10c.	Indians.		33	, Z	ន	I		1,308	500	178	2,076	500	1,016	1,005	8	יי נונ	418	_
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loyment.		-	4,5	020	밁	31		1,315	0.18	162	1,732	833	110	. 9 3 6	83	612	360	
By Emp	Officials	-, , ,!	ı.c	t•	•	ဗ	•	101	127	40	162	180	14.13	117	30	10.	000	
Municipalities.—With this general introduction we can now turn to the statistical results of the working of Local Self-Government, following table gives information as to the consultation of municipal committees, taxation, &c., in the chief provinces in 1915-16:— By Qualification. By Qualification. By Challification.	Nom!- Elected, nated,		:3	20	00	, 61		800	100	26	000	505	61 82	537	:	101	101	
Qualificat			ដ	10	15	13		633	101	90	108	431	103	307	83	208	281	
By	Ex- Officio.	1	1	1	1	-		110	118	30	381	90	81	51	30	16	178	-
Total	Total Numbor of Members		8	£1.	30	20		1,539	175	211	2,181	1,010	1,116	1,166	110	122	200	-,
2	Munich- palities	I	~	H	#		•	112	2020	1.0	150	29	88	100	9	99	**	-
Donnfoffon	Within Manielpal Linits.	;	861,501	070,445	518,660	281,035		1,071,101	1,150,010	127,021	2,367,323	2,181,058	2,082,309	1,000,000,1	141,028	890,084	600,000	r
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the result of the second of th	1	The state of the s	Calmita	: :		:	District Municip	Rengal	Biliar and Orissa	.Assam	Bombay and Sind	Madras	United Provinces	Tunfab	N. W. Frontler Provinc	Central Provinces and	Durma	; ;
	By Qualification, Ily Employment. By Race.	,	Incidence of Muni- of pal Toxation per head,	Population Number Total of Number Total Number Total Number Total Number Total Number Total Number Total Number Number Number Number Officio, nated, Official Official, Polans Faro Indians Per head, Nembers 17 33 13 4	Presidency Towns. Presidency To	Population Number Total Winnbox Total Municipal Muni	Population Population Population Mumber Total By Qualification. By Gualification. By Guali	Population Pop	Presidency Towns. Population Number Tokal Minnbor Tokal Minnbor Tokal Minnbor Tokal Minnbor Minnbor	Population Number Total Municipal Minister Total Minist	Population Number Total By Qualification By Employment. By Employment. By Employment. By Gualification By Gualification By Employment. By	Population Number Mumber Mumber	Population Pop	Population Number Total By Qualification. Hy Employment. Hy Race. Incidence Incidence	Population Number Total Bx Qualification. By Employment. By Race. Incidence Incidence	Population Number Total Number Total Number Total Number Total Number Total Number Total Number Number	Population Number Municipal Munici	Population Number Municipal Munici

The Property of the confusty deposits were in search Fund Association has been founded In la civit the atom to find you property that protest grow trapprocessing have from attend in the excitery for the most the toons. Months o not be stores to destate the give men of real mention which brinker the from the first factor of the population has been to be the front to the fifth population has to again that the most parameter that he then the And letter I to not an the only of the reacht for the reacht of the reacht for the reacht of the reacht for the Lat that teef it - plains of Is its armon the whole distinct folly personal cleanthers, the series of your folly has ever been waiting. Orest Japaness of the following the series of the following the followin the state of the sillar has a state of the s are talled, or I potented by stammat poole; at I it a sillare tanks polleted, not used in-distributely is bathles, cooking and drinking That the way to improvement lies through the climation of the people has always been recombed."

Of next price the price has been specied up as election premiers in detection develop-el, and furth were available. In a production levied in May 20d, 1914, the Government of Ruda summarised the position at that time, and ited down the general in a of relyance. This resimilar in reals of India, May 25th, 1911) though he studied by all who desire to understand the present position and policy; its main features are summarised here.

The precentions in India have moved more rapidly of late. In 1803, the Government of India issued an important statem at of policy. In 1993, imputal grants amounting to its 20,00,000 (£20,000) a year were made to local Governments. A new department of the Government of India was greated in 1910 in only to refere the Rome Department of elu-ration, scaltation and some other branches of the administration. In addition to sanitary conferences hell by Joral Governments, three All-India sanitary conferences were convened at Bombay, Madras and Lucknow, respectively, over which the Honbie Sir Harcourt Butter presided as Member of the Governor-General's Council in charge of the department concerned. There conferences were attended by non-officials been placed under the control of the Director-as will as officials, by laymen as well as pro- General, Indian Medical Service, with the fersional sanitarians. Assin, the Indian Re- Sanitary Commissioner as his staff officer.

to further the provention of research, and the proportion of knowledge and experimental counciling the connection with the counciling, made of spread and prevention of communicable diseases. To this fund the Coacroment of India make an annually recurring trant of 5 lakin of espece (£33,333). Moreover, since the constitution of the new departgrants have been mide to local Govern-ments and Administrations to the amount of Es. 4.61,47.60 (23,076,495), of which Hs. 55,23,60 (25,25,23) are recurring, and Rs. 4,07,24,600 (22,703,299) hon-recurring. In ad littor, grants amounting to Rs. 8233 lakhis (£548,850) a year have been made to district boards in extain provinces, a substantial portion of which will, it is toped, be expended on rural sanitation. These grants have rendered practical is the execution of schemes which a few years ago seemed beyond the limits of financial possibility; and there can be little doubt that the movement for eaultary reform is now well established and progressive throughout the constry.

Organisation.—As a result of the Plague Commission's Report Lord Curzon's Government took up with vigour the reorganization of the sanitary department. Research institutes were started and an appointment of Sanitary Communisher with the Government of India was created. The functions of this officer were to advice the Government of India upon ranitary and bacterological questions to ecttle with local Governments the principles on which an advance should be made and to organise and dir et research throughout India. The arrangement was not completely successful. Among the disadvantages, the separation of research from clinical work deterred men from ent wing the department, and the office work in connection with research prevented the Sanitary Commissioner from undertaking wide and constant touring. The organisation was accordingly modified in 1912. The Saultary Com-missioner is now the independent advice to the Government of India in all technical and amitary matters, but all questions of personnel as well as the administration of the bacteriological departm at and research generally have

The Sanitary Organisation.

The sanctioned strength of the superior saultary organisation in India now is

- (a) A Sanltary Commissioner with the Government of India.
- (b) A bacteriological department comprising-
 - (i) thirteen laboratory appointments distributed as follows:-

.. 1 Director and 3 Assistants. .. 1 Director and 2 Assistants Central Research Institute . . Bombay Bacteriological Laboratory
King Institute of Preventive Medicine, Madras . 1 Director and 1 Assistant.

Pasteur Institute, Kasauli

1 Director and 1 Assistant.

1 Director and 1 Assistant.

(ii) filteen new appointments recently sanctioned for the prosecution of research work and direct investigation in the field.

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(c) The following establishments under local Governments :--

					Deputy	Health Officers, Sanitary Engineers.					
Province.			Sanitary Comis- sioners.	Saultary Commis- elongs,	mmla- i* a.a !		Sanitary Lari- Incr-	Deputy of As Istant Sanitary Engineers			
Madras Bombay	••	••		1	5	. 12	12	1	6		
Bengal United Provi	อะเรื	::	::	1	5 4	, G	17	1	<u>e</u>		
Punjah Burma	••	••	::	1	2	2	5	į	1 2		
Bihar & Original Prov	inces	••	••	1	3	2	, s	1	. 2		
North-West	Frontier	Pr	יים ודס	1	1	ï	'n	1	:		
Delhi _	••	••	••!	1		3	••	1	••		
	Total	••		11	26	45	91	10	16		

Provincial Agency—In their resolution, corresponding branches in several districts and dated the 23rd May 1912, the Government of Native States. of Draws Cultury Commissioners and for the appointment of health officers (of the first-class for larger municipalities and of the second-class for the smaller towns) on the lines of detailed proposals received from local Governments. Twelve additional appointments of Deputy Sanitary Commissioner, thirty-five appointments Sanitary Commissioner, thirty-five appointments of health officer of the first-class and a large addition to the number of second-class health officers were sanctioned in 1012 and health officers were sanctioned in 1912 and 1913, the entire cost of the additional Deputy Sanitary Commissioners on the basis of the scale of pay fixed for Indians and half the cost of the health officers being met by imperial grante. The Government of India also advised local Governments to take powers, where these did not exist, to require a municipality to appoint a health officer and to veto the appointment of an unalt person. Such powers already exist in the Bombay Presidency, and have recurity been faken by legislation in Bengal. Simultaneously, the Government of India recommended the system in force in Madras whereby every municipations. pality is required to employ one or more trained pant; is required to employ one or more trained sanitary inspectors in proportion to population. Sanitary inspectors are now being employed in large numbers in towns. In addition, the civil sturgeon in every district is the sanitary advisor of the local authorities and in most provinces controls the vaccination staff. The provision of an increased staff of sanitary engineers is engaging urgent attention.

Research.—The policy of the Government of India is to keep the control of research under of India is to keep the control of research under listell, but to decentralise other branches of sanitation. The creation of an imperial department is no departure from that policy, and the large imperial grants already mentioned have been made without any interference with provincial Governments. While the general direction of a policy of public health must remain with the central Government, all detailed control and executive action are and will be left to and executive action are, and will be, left to local Governments. The Sanitary Commissloner with the Government of India is a touring officer empowered to consult and confer informally with local Governments and their officers upon matters connected with sanitation. He is not permitted to encroach upon the authority of Local Governments over the officers under their control.

Provincial Officers.—The resition of Provincial Saultary Commissioners towards the administrative heads of the medical department varies somewhat in different provinces. The Government of India do not with to interfere with the arrangements which local Governments may consider best sulted to local conditions but they desire to insist on the importance of defining the functions of the two officers and securing to the Sanitary Commissioner the position of responsible technical advisor to the local Government in all matters affecting public

Voluntary Agency.—The Government of India attach great importance to the organisation of voluntary agencies and have recently made a grant of Rs. 20,000 (£1,333) a sum equivalent to that given by the Dombay Government to the Bonday Santary Association, the bonds are composed of officers which was founded in 1903, and now has and other branches of the civil services with the

addition of non-officials. The Government of the training of scientific workers. The functions and soundedness the defect of the provincial inhoratories were diagnosis of the provincial inhoratories with local consolution of financial authority and responsibility and special research connected with local to these heards, and they commend to local differs. This policy has been steadily development to these heards, and they commend to local differs. to these boards, and they commend to local to these boards, and they commend to local covernments the appointment of a permanent salaried secretary to the board where this has not been done. They believe that such an appointment, wherever made, has resulted in an increase of efficiency.

Training Arrangements for training the superior sanitary staff are now engaging the attention of the Government of India. The chief dimenty at present is to provide course. unier amiculty at present is to provide course in practical bygione and in the study of the bacteriology and ctiology of tropical diseases. It is hoped in the near inture to make arrangements in India for the former and to utilise the schools of tropical medicine at Calcutta and elsections of tropical medicine at Calcutta and elsections of the latter school for the latter school fo schools of tropical medicino at Calcutta and else-where for the latter. Meanwhile, a British diploma in public health is required from candi-dates for the post of Deputy Sanitary Commis-sioners and health officers of the first class. The problems of public health in India are vitally compileated by the fact that hiting insects are a complicated by the fact that biting legects are a complicated by the line class ments insects are a comminent factor in the dissembation of disease and it is abstract destroic to accomplish to the committee of and it is obviously desirable to provide in India, and it is obviously desirable to provide in India,

Training classes for sanitary inspectors are now held in all the more important provinces. for sanitary officers.

Department of Public Health.—A substantial beginning has thus been made for the stantial beginning has thus been made for the development of a department of public health and Indians have been freely enlisted for it. department of public health of the posts of Deputy Sanitary Commissioners and Deputy Sanitary Commissioners out of 20 health officer are now open to Indians. The Deputy Sanitary Commissioners out of 20 had the majority of health officers are Indians. The new bacteriological department consisting of

that presidency. In 1905 Lord Curron's Government another the position and the criment of the Government of India in regard to the catabilishment of laboratories for the study the nubles of groblems of nublic health in India.

and spream research connected with local conditions. This policy has been steadily doveloped. The Central Research Institute has been established at Kasauli. The Plague Research Laboratory at Parel has been extended and re-equipped and is now the bacteriological and re-equipped und to now presidency; and a proposal is under consideration to attach to it proposal is under consideration to attach to it a school of tropical medicine. A research labonation of organization of following Decision in the construction of Colorida Decision in the construction of Colorida Decision in the construction of Colorida Decision in the colorida Decision in matriction at Calcutta. Pasteur institutes construction at Calcutta. Pasteur institutes exist at Kasauli and Coonoor. A third is about exist at Assault and Coonour. A Dilium and to to be established in Burma, and it is under discussion to establish others in Assam (where it is to complete the co will be combined with a research laboratory) and Bombay.

Besides the routine work connected with Besides the routine work connected with the bacteriological diagnosis of disease, anti-capture treatment, the manufacture of various vaccines and sent and general research, these tractures at different times have been the laboratories at different times have been the centres of many appropriate these on placing and entering amounts, which are those on placing and entering amounts, which are those on placing and entering centres of many special investigations, notation amongst which are those on plague and entering fever. It is hoped that before long each province in India will have a laboratory fully contend for many the second of the second

Research Fund Association.—The found-ation of the Indian Research Fund Association In 1911 has marked an important em in sanitary The control and management of progress. 1100 control and management of the association are victed in a governing body, the mesident of which is the Momber in charge the president of which is the momber in charge of the Education Department of the Government of India. The governing body is assisted. ment of India. The governing body is assisted by a scientific advisory board, of which not less than three members have sents on the governing hody. They examine all proposals for Deputy Sanitary Commissioners out of a substance of the majority of health officers are Indians. The body. They examine all proposals for the majority of health officers are Indians. The body. They examine all proposals for the majority of health officers and sanitary consisting of the association and report members of this work in officers and Sanitary Commissioners of much of the drudgery of the health with relieve Deputy Sanitary Commissioners of much of the hoped that the latter sloners of much of the hoped that the latter some of much of the hoped that the hide and routine work, it is hoped that the latter to consider issues from a higher plane, and will be set free to deal white plane, the consider they are able to review to-day, the consider they are able to review to-day, fire those which they are able to review to-day, fire those which they are able to review to-day, fire those which they are able to review to-day, fire those which they are able to review to-day, fire those which they are able to review to-day, fire those which they are able to review to-day.

Progress of Research — Research is slowly sourced the proposal that the fire the proposal that the fire they are the fire the proposal to the fire the proposal that they are the fire the proposal that they are the fire the proposal to the fire the proposal that they are the fire they are the fire they are the fire the proposal to the fire the proposal that they are the fire they are the fire the proposal that the fire the proposal that the fire they are the fire the proposal that the pro ms may range an proposaly for work in connection with the scientific objects work in connection with the scientific opposes of the association and report as to their importance and feasibility. The members of this area and constitutions of the season with the season

the establishment of laboratories for the study of problems of public health in India. The publication of middle for Merce original in India—the "India Jores of Merce of Merc

ourable reception which has been accorded to the first three numbers is evidence of the increused interest that is being taken in sanitary science in India to-day.

Water Supply.—Few subjects have received more attention of late than the provision of a piped supply of filtered water in towns. Completo piped supply of liftered water in towns. Complete figures are not available but sums amounting to at least Rs. 3,51,58,207 (£2,343,886) have been spent during the last 20 years on completed schemes. Projects costing Rs. 1,10,03,433 £933,562) are under construction and projects costing Rs. 1,14,44,750 (£762,083) have prepared and sanctioned. These figures exclusive of the expenditure in the Presimy towns and Rangoon.

Drainage.—Drainage schemes on modern are the basis of all sanitary improvement in urban areas. The demand for them is scarcely less than that for piped water and is steadily on the increase. As in the case of water sapply complete figures are not available but the known expenditure during the last twenty years has been considerable and is now rapidly increasing. The expenditure on completed works outside the Presidency towns and Rangoon during that period amounted to Rs. 97,65,040 (£651,003), whereas the cost of the works under construction is estimated at Rs. 1,54,20,502 (£1,028,033). In the beginning precedence over drainage was given to piped water-supply but experience has demonstrated the advant-age of introducing both concurrently. Without drainage there is no means of carrying off the surplus water and without piped water-supplyitis difficult to flush the drains properly.

When drainage schemes on modern lines were first started in this country, there seems to have been a bias against the use of sewers, and, wherever possible, open drains were adopted. Experience has shown that the preference for the open drain and the fear that sewers would give excessive trouble were not well founded. On the contrary, much of the advantage of a drainage system is lost if only open drains are used, as the old system of handcarriage latrines has to be continued. More-over, economy in establishment is possible only in the case of a sewage system.

Pligrimages.—Pligrimages necessitating as they do the collection of large numbers of persons, often more than a million, at one place at one time have an important sanitary cholera aspect mainly in connection with and other communicable diseases.
Government of India recently decided The Government of India recently decided to examine the sanitary arrangements at the chiefy places of pligrimage throughout India and local Governments were asked to appoint provincial committees for this purpose under the provincial committees for this purpose under the provincial committees for this purpose under the presidency of the Sanitary Commissioner with the Government of India with a view to formulate practical schemes of improvement. The inquiry is still in progress but the Government of India havealready made a grant of Rs. 2 lakins (£13,333) and promised an additional grant of 4 lakins of rupees (£26,666) spread over four years towards the improvement of the pligrim route to Badrinath; and they have made a further recurring grant of Rs. 20,000 (£1,333) a year for the same object. The important question of improving the conditions of the pligrimage to the Hedjaz by Indian Musulmans

is undergoing close scrutiny. The Governor-General in Council anticipates that these inquiries will lead to signal sanitary improvements and promote the convenience and comfort of many millions of His Majesty's loyal Indian subjects.

Rural Sanitation.—The following observations are based on practical experience of rural sanitation :-

- (a) Travelling dispensaries may be used to spread a knowledge of the simple facts regarding the more common diseases. For this purpose the sub-assistant surgeons in charge should be given a special training in hygiene. Once they become known to the people as healers of the sick their advice as sanitarians may become more acceptable_
- (b) The improvement of the village watersupply is as important as it is difficult. Apparently, excellent results been obtained by disinfection of wells with permanganate of potash. Ex-periments are being made in different parts of India in the use of tube-wells, etc. It might serve as an useful object lesson to use pumps and tube-wells for the provision of water at fairs, schools, hospitals, and local public offices. In some localities, a tank supply alone is possible and the diffi-culty is to protect even new tanks from pollution.
- (c) In several provinces, notably in Madras, village unions or circles have been formed and their committees entrusted with small grants for the improve-ment of the sanitation of the village site. This measure might be extended experimentally elsewhere. It is calculated to encourage discussion and inquiry regarding sanitary work.
- (d) Villago midwives are, in some districts, encouraged by small grants of money and rewards to attend at the headquarters hospital for a short and simple course of training. These measures open up possibilities with reference to a reduction in infantile mortality and children's diseases generally.
- (e) In most districts in India, the civil surgeon is also in theory the sanitary officer of the district. His duties at head-quarters, however, do not allow him to tour and inspect in the district to the order that to the extent that is necessary; even in the case of epidemics in the district it is sometimes not possible for him to leave headquarters. In some provinces, district sanitary officers have been appointed and there can be little doubt that many more such appointments are required and that one of the most urgent and hopeful measures for promoting turns annitation is the appointment of well qualified and whole-time district health officers to control and organise all sanitary arrangements and experiments in the

Cholera is much less provalent than formerly and the increased mortality from this disease occurred in provinces where water-supply had been contaminated by floods the highest rate of death per mille 4.46 being reached in Assam; in Bengal where the greatest number of deaths 120,670; occurred infection is reported also to have been spread by throwing dead bodies of cholera patients into the rivers; in the Punjab where the number of deaths, 13,100, was the largest in any year since in 1903, the infection was spread by plignins returning from fairs. Bengal contributed the largest increase to the rise in small-pox mortality, 32,756 cases occurring there as against 9,035 in 1914, and an average of 9,035 for the previous three years. With the exception of the small province of Coorg, Bengal had the highest fever death-rate, 23.47. "Fever" was responsible for more than 55½ per cent, of the total mortality, only three provinces—Bombay (11.48), Burms (8.64½), and Madras (7.3) having a fever death-rate of less than 14½ per mille. The term, however, covers many ranses of death, and many discases much more fatal than mainfal fever. The malaria section of the flasses are held. Anti-mainfal operations and mosquito surveys are being carried out by special officers in practically all the provinces. The measures adopted to fight malaria, are the safe of quinine at cheap rates and the extirpation of mosquitoes by such methods as drainage petrolage and jungle clearing.

Plague.—Mortality increased considerably. In the Punjab, however, where the greatest number of deaths, 221,006, occurred, the epidemic, which, after heavy rains in March and early April, was the worst since 1907, practically disappeared in June with abnormally dry weather, and only but the only other provinces to reach 1 per mille were the United and Central Provinces and Bombay, with 1.40 and 2.24 respectively. In Bombay the number of deaths increased from 20,000 to 43,824. There were 27,241 deaths or 7 per mille in Behar and Orisea. In Assam and Ajner Merwarano deaths occurred from plague. The following table shows the mortality in all India since 1806 whole, 1,315,802, was recorded in 1907, after which the mortality declined enormously:—

1896-1900				407.044		-			
1896-1900	•••	••	• •	403,614	1912	 			306,488
1901-1002	• •	• •		3,934,601	1913				217,809
1900~1910	••	••	• •	2,520,500	1914	 4 *	• •	• •	295,760
1911	* *	• •	• •	816,873	1015	 		• •	433,866

Vaccination.—The total number of vaccinations performed among the civil population during 1015-16 was 0,572,033, being an increase of 109,182 operations on the previous year's work. Of primary vaccinations 02:52 per cent. and of re-vaccinations 57:76 per cent. were successful about year old successfully vaccinated. The number of infants under a Government vaccine depots.

MEDICAL INSTITUTIONS.

Hospitals, Dispensaries, &c.—In 1915 the number of aided civil hospitals and dispensaries was 2,005 as again 12,850-in 1014. The number of in-patients increased to 541,540 and of outpatients to 33,022,052, and the number of operations rose to 1,356,811. There were also 850 Statespielal and railway hospitals with a total of 2,730,036 patients and 711 private non-aided institutions with 5,063,047 patients.

Travelling dispensaries are employed in some provinces. The Bengal Nursing Association has begun to train Indian women as nurses in Mojusal hospitals. A similar scheme was brought into force in Burma. In the United Provinces and Burma the system of charging fees to well-to-do patients was continued with success.

Medical Colleges—There are five medical colleges (Bombay, Madras, Calcutta, Lahore and Lucknow), the students in which numbered in 1915, 2,096, including 70 women. There are also 17 medical schools, the students in which numbered 2,036. There is an X-ray institution at Dehra-Dun where a class of instruction was attended by 20 students. Branch installations opened at Dehla and Simia are obtaining a large number of patients.

Pasteur institutes—There were Pasteur Institutes for anti-rable treatment at Kasauli (Punjab) and Coonoor (Madras). The number of patients treated in the former increased to 5,046, in the latter to 1,400. A Pasteur Institute was opened at Rangoon in July; the foundation stone of another was laid at Shillong in November.

Lunatic Asylums.—The treatment of lunatics at asylums provails on a comparatively small scale; but the asylum population is steadify increasing. The number of asylums in 1015 population of the year was 8,978.

The total asylum population of the year was 8,978.

Leper Asylums—There are many leper asylums, among which may be meationed the Madras Government Leper Asylum, the Matunga Leper Home, Bombay, the Trivandrum State Leper Asylum and the Calcutta Leper Asylum. There are also many asylums or homes, frequently under some sort of Government supervision, including about 50 asylums of the Mission to Lepers.

The Tropical Diseases.

This account of the chief tropical diseases was ject, and acts prejudicially to the working of ritten by Major Gordon Tucker, Lais, of the internal organs, especially those subserving rant Medical College:—

digestion. A blast of cold air coming on the

If the principal scourges of the European in re troples, namely, malaria, dysentery, and applied, could be removed, there would still main the strain of climate as a rource of iseaso and a cause of deteriorated health, not mounting for a time to actual lilners, but ventually showing its effects in lessened restance to the wear and tear of life, premature mility of the tissues, and diminished fertility. his results mainly from the transfer to a hot ilmate of an individual whose heat-regulating techanism has proviously adapted itself to onditions where the body temperature has to o maintained some 400 above that of the surounding air. On arrival in a country where he temperature of the air is perhaps the same s that of the living tissues, it is obvious that here must be a sudden and violent disturbance if such mechanism. This mechanism is very omplex and exists for the purpose of striking a balance between the heat formed by the shanges in the tissues, and the heat lost from he lungs and by radiation from the surface of the strike. of the skin. But beyond this there is no doubt regulation of the temperature dependent in some way on the normal working of the central tervous system, as is shown by the remarkble alteration which may take place in the temperature of parts of the body when the brain has been subjected to some gross lesion.

In the tropies the amount of carbonle acid given off by the lungs is reduced about twenty per cent., the number of respirations per minute is reduced, and there is lessened activity of the lungs. This shows that there is less tissue change (or combustion) going on in the tissues, that is to say, diminished heat-production. The same is shown in the diminished amount of work done by the kidneys. As regards heat-loss, this is almost entirely effected through the skin, 70 per cent. of the heat of the body in temperate climates going off by radiation and conduction, and 15 per cent. by evaporation. When however the temperature of the tropical atmosphere rises, the loss by radiation falls to nothing, and all the heat has to be dissipated by evaporation from the surface. Consequently, practically all the work of losing heat, which strikes the balance with the heat production and maintains the body at a normal temperature, falls upon the sweat glands which are therefore in a state of continued and abnormal activity. In hot dry atmospheres the water evaporates as soon as formed, but in conditions of heat with great humidity, such as obtain during the worst months of the year line. Herein lies the comfort and healthness of the punkah which removes excessive moisture. But it is obvious that in order to keep the temperature of the body normal there must be increased flow of blood to the surface of the body, a state quite different from the conditions under which the organs of the European lave been trained. This favours those studied chills to which Europeans are so sub-

ject, and acts prejudicially to the working of the internal organs, especially those subserving digestion. A blast of cold air coming on the congested skin in the early hours of the morning must chill the surface, causing a sudden contraction of the cutaneous vessels, and tending to produce a rapid flux of blood to the deeper parts, inducing a congestion of the nucous membrane of the bowels, and from that results the "morning diarrhea" which is occasionally sovere and exhausting. Such a state of affairs may become chronic, and so lead up to one of the climatic diarrheas which are a frequent cause of invaliding. Moreover a sudden congestion of the liver and spleen in a person who has had malaria, may be followed by a malarial hopatitis or spiculits, and repeated attacks of these conditions may result in permanent enlargement of these organs; or at any rate, in the case of the stomach and liver, to derangement of function and so to chronic dyspepsia or insufficient manufacture of bile.

Again, the chronic hypersomia of the skin layours the development of fungl and microbes. Hence the existence of ringsorm of various kinds from which Europeans frequently suffer. There are microbes which, even in temperate climates, are found within the layers of the skin or on the surface. On account of the chronic congestion and moisture of the skin in tropical climates these microbes not only become abundant but virulent, and hence the Rolls which are often a serious affliction in the hot months. We frequently come across most distressing cases where the patient is covered from head to foot with them. When the boil comes to a head and softens it is easy to afford relief by opening each, and so relieving tension, but the worst kind is the "blind boil" which forms as a hard red mass, intensely painful and not coming to a head, and here an incision gives little relief. Until lately these cases were very unsatisfactory to treat, and patients would recover after weeks of pain and much reduced in health. Fortunately we have in the-vaccine treatment a most successful method, the vaccine used being cither a stock one and generally acting like magic: or, in a small percentage of cases requiring to be made from the boils themselves. In still other cases the infection of the skin causes the formation of Carburalits, which are more serious but require treatment on the same lines.

which are therefore in a state of continued and abnormal activity. In bot dry atmospheres the water evaporates as soon as formed, but in conditions of heat with great humidity, such as obtain during the worst months of the year in Calcutta and Bombay, the skin is kept continued in the conditions of the skin is kept continued in the sweat glands and distention of their orifices, producing red papules and little vestion. Herein lies the comfort and healthiness of the punkah which removes excessive mosture. But it is obvious that in order to keep the temperature of the body normal there must be increased flow of blood to the surface of the body, a state quite different from the conditions under which the organs of the European lave been trained. This favoure those surface gives the impression of sand-paper, sudden chills to which Europeans are so sub-

of perchloride of mercury, dabbed on the skin and allowed to dry: followed by dusting with equal parts of borie seid powder and tale.

To avoid the heat the European files to the punkah. The electric punkah has been one of the greatest blessings introduced during recent years into Indian towns as its use insures a good night's rest in place of the weary t hours of sleeplesmess which formerly out the termon and the More dangers. Most common are attacks of muscular theumatism, rudden internal chills causing diarrhom, attacks of colle, ordinary naval; the mosquite curtain, which does not conduce to the free circulation of air, and gives good ventilation in its place.

Finally, we have the effects of a continued high temperature on the working of the nervous system. As has been remarked by the late LL-Col. Cromble, LMS., (in a valuable paper on "The measure of physical fitness for his in the Tropics," to which the writer is much indebted). "In the tropics there is going on continuity and measurements." continually and unconsciously a tax on the nervous system which is absent in temperate climates. The nervous system, especially those parts of it which regulate the temperature of the body, are always on the strain, and the result is that in time it suffers from more or less exhaustion." The mean temperature of a European in India is always about half a degree higher than it is in a temperate climate, and it may be raised to 99° or 100° after severe bodily exertion. When, under the strain of a Ecvere bot moist and sultry season, the heat-centre gives out, or as it is said is "inhibited," we have all the serious phenomena of Hear state of the cook-house should be carefully STLOEE. But in the less marked but long supervised.

the irritation provents clesp, interferes with drawn out process of nervous exhaustion we digestion and so promotes diarrhoa, so that have the common tropical effect of deficient this simple malady may be the starting point mental energy, generally commending with one of a dancerous lilners. Hannel next to the skin should be avoided in the hot weather as yearning for stimularits, which culminate in it is so liable to start the irritation. A good that lowering of nerve potential which we know lotion consists of two teaspoonfuls of Laurder to well as ERCEASTHESIA. This persons to be the others of a 1 in 2000 solution in disturbance due to allow to the latest to be real. cologne in ten ounces of a I in 2009 solution disturbance due to elimite is likely to be most marked, as Cromble points out, in two classes of persons, namely those who suffer from obesity, and those who are members of: te designated 85 families wisich h may be designated as that is whose nervous systems "neuropathic," that is whose nervous systems are naturally unstable. To these may be added persons with naturally defective discistion and those who have a predisposition to gout,

To sum up, it will be seen that the effects out the temper and the mental energy of the lof long residence in the tropics are real and per-European during the hottest months. Still manent, not only in the direction of lowered this blessing is not without its attendant bodily health, but in undue wear of the nervous bodlly health, but in undue wear of the nervous system, which may not only be apparent during active service in duties involving strain, anxiety or responsibility, but also after refirecatarrh, and sometimes bronchitis or preciment; so that the chance of longevity of the monia. The electric punkah does away with retired Indian official are not up to the normal. retired Indian oricial are not up to the normal, and the "extra" which the insurance Office puts on such lives is not only to cover the risks incidental to life in the tropies, but also the diminished vitality of those who have survived to enjoy their pension and case.

But there are other Indian risks, and these are most likely to affect travellers, due to the effects of heat on food. Microbes multiply with profusion in milk, and decomposition is liable to occur in meat within a very short time after killing. Milk should always be bolled; and owing to the dirt in railway dining-rooms, and in many hotels, and the carelegance of the lower type of native servant employed therein, it would be better to rely on tlaned milk or on a supply of Horlick's milk tablets. when travelling long journeys by rall and in the smaller towns. Beef should never be eaten underdone, as it is a prollec source of tape-worm in India. There is also liability to contamination of food by files and dust. Indian cooks, though among the best, have little regard for canitation, and consequently the

MALARIA.

travelling in India. Malaria is the commonest cause of fever in the troples and subtropies, but the risks therefrom have been greatly diminished by our complete knowledge of its cansation which now permits an intelligent prophylaxis, that is, taking adequate pre-cautions against infection. The connection of certain kinds of fever with marshy solls has been recognised from ancient times, whence its old name of paludism; and the word "ma-laria" itself implies the belief in the existence of an emanation of poisonous air from the water-logged ground. It is now realised that the

Attacks of malaria, dysentery, and enteric like body which invades the red cells of the represent the principal risks to the European blood, and lives at their expense. It has two life-cycles, one within the blood of the human host (endormous and sexual), the other in the stomach and though of the mosquito (exogenous and sexual). But the first part of the sexual cycle is prepared for in the blood of the human host.

If the blood of a patient be taken about an hour before the occurrence of the "rigor, (the shivering-fit which marks the commencement of the attack), and examined in a thin film under a high power of the microscope, some of the red corpuscles will be found to contain bodies composed of delicate protopotent is conveyed solely by mosquitoes, and plasm showing minute granules of dark pig-by the anopheline species. There are only ment in their substance. These bodies are a few of the many anophelines which carry the parasites. The granules represent the malada, but all are to be regarded as dangerous, result of the destruction by the parasite of the The parasite of malada is a delicate jelly-red colouring-matter of the blood-cell. The Inter-consequently appears paler than natural, other calleded, which the substance of the and is enlarted. In the parallel of the second is one of the process. On small and when the story is commanded in the base of the process. On small farms make of fairly is from to have decided in the tenth and when it wishes to draw him from twelve to twenty minute spheres blood some of the min as infected many in the process into the present of the from the body present of the minute spheres blood some of the minute and red blood stream. They then enter red blood remained and through the various cycles of primars has boast chromic the entrace that the inter-she to five days, or as king as a fortheid allow, and has appeared five in the blood-infinite things and absorbed by the phartogress but those present of the first has an attack of first, sementime and absorbed by the phartogress but those present of surround the particular the strength of makes of surround the facility of makes and and and processed by the strength the particular the strength of makes and processed the particular the strength of makes and processed with the strength of makes and processed the particular the strength of makes and processed the particular the strength of makes and processed the strength of makes and processed the particular the strength of makes and processed through th

his cycle, hence called the "quartar vallety.

There is also a third kind of paradic called the "mallement terment," called by the Indians the assistatemental paradick which also takes interested house to a more than also takes interested present for a more preparadictive, and has more premising effects on the system and is also habbe to produce extent terrous symptoms, such as manuscreament, other anding in dusty with the manuscreament of the find of paradic has its special characteristics which can be observed by microcopinal examination of where the description of microscopies, emailing and in. Decreations of expert examination of the Model is always alvisable in cases of favor not colly to show that maintain is greated but also to distinguish the premiumber aims which is employ the models.

Is entrong the triand.

This the blood there also appears the first stage of the sound life of the gameins in the stage of male and fermic elements. This result from some of the parasite which or not understood to not understood to not understood the mini sometiment of the purpose of allowing further development in the note human their region in the note that parasite is the morphise. These serminations of each of the parasite himsel finel visite in the case of this parti-cular paralle is the mounting. These surms elements are expensive meritance in the blood of cases of the purincers carety of malaria, in the firm of createning bodies which obtain conditionable perfection from the plantequest, and many therefore pensist for some time in such blood. "Greeness" agrees only in malariants forms and persons who hardons them are of create and persons who hardons them are of create and persons who hardons are interest from them, thus you believe are fittened from them, thus you believe such which or stores unbelieve from malaria.

the hears up over himself district the summer of the body is very only, the temperature, taken in the sample of morth, shows a rise to 100% or history. It a quarter of an home to more the floor stays "comes on, the fine coording funded, the summer of the body red and warm, the small quink poles becoming for any homeling and springs the parient complains of the total and quink poles becoming for a few homes and then course the remains that for a few homes and then course the remains stars for a few homes and then course the remaining stars for a few homes and then course the form the fined and fice, and some enterior to the whole body. Great relial is experienced when this is entered on, and is likely to be followed by a refreshman steap. During the partition that for a contribution of the state of considerable pain. There is also often truthlesome ortain from a contribute the state of considerable pain. There is also often truthlesome ortain from a farger heary theory with splend almost strict, the country of the splend is form a farger than a fundament of the splend is form a farger than a fundament of the splend of malarious distarts. The so-alled "come called," which is common among the children of malarious distarts. Entryment who splend characteristics, the shape of automata, dynapping the easily-initial manual distant.

Treatment

editing gammae is the mosquire. These serum elements are expensive actioned in the blood of cases of the permitter variety of making in the firm of creating backets which obtain the firm of creating backets which obtain the firm of creating backets which be added to a great entire by the use and many therefore pensits for some time in the firm of making and firmed a firm of creating appears who hadron them are of creating attentions to the community. The making are followed from them them the form making are followed from them them the community. The serum elements of the making part of the making for way and covered and has different and the final a true pressure of the farmer part of the making for way and covered and has different and the making part of the making for way the cold starp the parties themselves with the country of the making for way and covered and has different and the cold starp the parties are parties of the latter between the cold starp the parties and the cold starp the parties are partied and the cold starp the parties are partied and the cold starp the parties and the cold starp to cold starp the cold starp the cold starp

in five grain down every rix hours until the physicile nditure. Beach at these traces last in the grain down extracts its many many the temperature becomes normal. Thereafter the form rest or heaver, but the majulty of them drug should be continued for a tew days in yield to graine to there or four days. It is loses of five grains tuke a day. This is called in such that an early expedication of the 158xt. of quining tabloids is that the unplearant trate le avoided.

nre revero continuous Thero Rome malarlal fevers which appear to react the acgululae. There are the petulcloutertian fovers, which to often cause ditherally in diagnode inarmuch as for a few days they may suggest enteric fever, especially to the e-inexperienced in tropical diseases. In such cases large does of quintre are required, the

grains of quintue should be given, and repeated (skin bring best most meanwhile by a diaullated toward off a record attack, or, of any fir so useful. In certain circs of troband cate, to reduce its everify and prevent a third. Instantal possible or riber, less any reason. If there is conditing, quidle tabilities are not quicker do a rot appear to be active toler. If there is confilling quinties tabledly are not quinties do a rot appear to be active then likely to be dige ted and absorbed; in each administrated by the proudly resource that be cases the drug should be given in a ruisture, but to the infection of quinties late the free cases the drug should be given in a mixture had to the injection of quinter late the fire-distributed in a dilute held. The indvantage sucs. This should always be done by a saidful physician, and with egocial premutions, as come come of refrance have ecoured after quality injects as taken from stock solutions. stands inject in state from the solve the ten who appeared project of the "varioteds" projected by their in the month of the dead to the d that, appear to be at obside devoid of this and are very offereigns.

TYPHOID FEVER.

By Typhold or Inferio Pover is meant will be kept two contamination by dust. In continued fever, lasting for this weeks or lower, the neighbours and of all native villages the due to the entrance into the late that caust roll is faith with animal delects which of course. the reourge of the British Army in India, especially among the younger robliers, it has been reduced to a very low point, through the prophylactic use of Sir Almoth Wright's vaccine, continuous attention to the sanitary condition of the soldiers' quarters, improve-ment of water supplies, and skilful medical treatment.

Paratyphold" is a term applied certain fevers which have all the characters of typhold, but with a rather lower mortality, and which are due to infection by backli which are closely related to the typhold

bacilius.
The fact that typhold more frequently attacks the new arrivals to the troples renders this disease one of the risks which tourists; have to face, but this can be minimised by knowledge of the manner in which the typhold bacilius affects an entrance into the system.

Typhold Fever has how been shown to be a common affection among Indians, contrary to what was held some fifteen years ago. In Bengal and the Pupjab, according to Leonard Rogers (Fevers In the Troples), the maximum of cases for all classes occurs during the hot months, while the maximum for Bombay is in the rainy season. But taking the European cases only he finds that the largest number of cases falls within the dry, cold and hot sea-FORE, and considers that this is due to the European being most frequently infected through contaminated dust, this class of person paying greater attention now-a-days to the condition of the water which he drinks: unlike the Indian who will drink water out of the nearest tap.

most commonly produced by contamination of the bowel may open up an adjacent blood of drinking water. Great care is therefore vessel and produce alarming or even fatal necessary in bolling and filtering drinking; hamorrhage. And again the whole thickness water and in protecting the vessels in which of the bowel may be perforated, causing death

of a particular barillus (the hyphold bacilius), is very flicit to be a colated with disease which not only products serious abdeminal producing microles. Hence interion of the trouble but also symptoms relevable to a generalised infection of the blood by the harillus dured by the wind carrying the dust from and the poisons which it engenders. Formerly lattices and other four carries, thereby types the course of the bright transfer to the collection of the blood by the state of the four carries of the poisons which it engenders. Formerly lattices and other four carries whereas the research of the bright and the collection of the state of the four carries. tables produced from gardens untered by conage containing fluid are also very dangemus, and should be avolded by the Indian traveller. Lastly overers taken from estuaries which receive rivers toden with obtaine matter from the villages on the banks are believed to afford special protection to the typhoid bacillus, and when eaten ran are dangerous,

In many cases the onset of the disease is sudden, with he dache, shiering and yould-ing, but in a little fees than half the onset is hislidious, the patient being out of sorie, slightly feverish, perhaps with occasional looseness of the bowels, his of appetite and a little sick-ness. He ultimately takes to his bed, generally dating the commencement of his illness from this event, and there furthwith begins a period of at least three weeks of anxiety for his friends and relative, inasmuch as enterio fever, as seen among Europeans in India, is characterfeed by its greater severity and longer duration. The temperature rises gradually day by day during the first week, remains at a fairly constant high level during the second, becomes irregular with daily remissions during the third, and in the majority of cases is succeeded by a period of convalescence, during the first part of which the greatest care in dealing with the patient is required. The bacillus produces its most important effects on the lower portion of the small intestine, certain glandular struc-tures in the wall of the bowel becoming inflamed, enlarged, and finally ulcerated. It is on the formation of these inte-tinal ulcers that many of the worst complications depend. The ulo Indian who will drink water out of the cerative process favours, first a looseness of the bowels, later an exhausting diarrhea.

As is well known, infection of typhold is Moreover the destruction of some of the contact.

from collapse and petitenitis. This is the in aborting the fever, but this does not mean danger which the physician has in view through-that drugs are of no use in typhoid. On the out the case. It can only be guarded arainst contrary the complications, which are many, by the most careful nursing and attention to will be detected as they arise by the careful the dictary. Other dangers are bronchitis physician, and there is no disease which tries the dictary. Other dangers are bronchitis physician, and there is no disease which tries and failure of the heart, especially during the more than this the skill of the doctor and the third week. During the stage of convalescence that the same care has to be taken with the convalescence what seems to be an almost dictary as the alects are undergoing healing, hopeless case. Abdominal distension, for insand an error might lead to the rupture of stance, is a frequent and serious complication one of them when all danger may well be expected to have passed. Finally, owing to soon as detected. It results partly from the the depressing effects of climate, convalescence decomposition of the intestinal contents, partly is often extended with proported mental design the pure star of the nurse of the doctor and the same time star of the doctor and the same time of the doctor and the same time of the doctor and the same time of the doctor and the same star of the nurse, who will frequently bring to convalescence what seems to be an almost dictary as the place of the nurse, who will frequently bring to convalescence what seems to be an almost dictary as the place of the nurse, who will frequently bring to convalescence what seems to be an almost dictary to a first of the nurse, who will frequently bring to convalescence what seems to be an almost dictary to a first of the nurse, who will frequently bring to convalescence what seems to be a number of the nurse, who will frequently bring to convalescence what seems to be a number of the nurse, who will frequently bring to convalescence what seems to be a number of the nurse, who will frequently bring to convalescence what seems to be a nurse, who will frequently bring to convalescence what seems to be determined to the doctor of the nurse, who will frequently bring to convalescence what seems to be done in the first of the nurse of the is often attended with prolonged mental de-

pression. In the matter of treatment it is absolutely essential that the patient should have the benefit of skilled rearring. Fortunately highly-trained European nurses can now be obtained from any populous centre, though occasions arise when the demand exceeds the supply. If possible two nurses should be obtained for day and night duty respectively. Unless it is absolutely necessary to remove him. the patient should be nursed where he falls ill and patient should be nursed where he falls ill and not sent long distances by train. At the most he should travel to the nearest large town where there is a Civil Surgeon. Treatment mainly consists in keeping the fever within bounds, and thereby sparing the strain on the heart which is great during the three weeks of continued fever. This is effected in great part by the system of hydrotherapy, that is, treating the patient by continued tepid baths or by frequent sponging with tepid water in or by frequent sponging with tepid water to trophes which we witness on occasions among which a little toilet vinegar should be added. "globe-trotters" who have come to the There is no special drug which is of any use country for pleasure or health.

decomposition of the intestinal contents, parily from loss of the inuscular tone of the bowel. It hinders the respiration and the section of the heart, and favours the occurrence of per-foration. Diet consists almost entirely of milk, either pure, diluted with barby water or whey, or as a felly.

Lastly a word should be said about the im-

portance of typhold inoculation to these in-tending to travel in India or the tropics. It tending to travel in main or the cropies. At is better to have Wright's prophylactic vaccine injected before leaving home, but if this is not done, it should be submitted to on arrival in Bombay. In the majority of cases the only discomfort resulting is a little passing tenderness at the site of inoculation; in some cases there are a few hours of fever; and in the matter tests out-of-sorts for twentyworst the patient feels out-of-sorts for twentyfour hours. The inoculation (with a larger dose) should be repeated on the eighth day, Attention to this small precaution as a routine measure would obviate most of the catas-

DYSENTERY.

forms of infective inflammation of the large is greater tendency to thickening of the bowel bowel, in which the principal symptoms are wall, and to the dangerous complication or griping, abdominal pain, frequent straining, sequel of abscess of the liver. bowel, in which the principal symptoms are griping, abdominal pain, frequent straining, and the passage of a large number of evacuations characterized by the presence of blood and mucus. The changes which take place occur in the mucous membrane of the large bowel, and are first an acute catarrh succeeded by piceration more or less extensive, and some-

times going on to gangrene.

The disease is endemic in India, and is in The frequency with which it attacks BuroThe disease is endemic in India, and is in
fact common in Eastern countries, and in
fact common in Eastern countries, and in
Egypt. It is liable to arise in epidemic form
especially among armies in the field. It is
caused by a contaminated water supply, and
by the infection of food by dust and files.
Dysentery is probably caused by several varieties of infectorganisms but for all practical
purposes may be said to be divided into two
great groups, one due to the ameda of dysentery, and the other caused by a bacillus described by Shiga and known as bacillary dysentery. The latter form is more common in
Japan and in the north-eastern side of the
Indian peninsula; the amedic form being that
most commonly seen in the Bombay Presidency. The bacillary form is characterised
by the presence of a very large number of
evacuations perhaps as many as a hundred
or even more in the twenty-four hours. In
the amedic form there are seldom more than
twenty evacuations in the day, and there is
less fever and general depression than in the

The term Dysentery is applied to several bacillary variety. In the amobic form there

After a few days of severe illness should the patient recover there is a danger that the disease may become chronic, a condition which is associated with emaciation and profound weakness. The chronic form is also more likely to eventuate from the ameble type.

The frequency with which it attacks Europeans in India may be judged from the admis-

sounds feeble. As the case progresses, the the skin. It is an extremely distressing kind primary ulcer will enlarge and become of an of bulse, as the pain is great and nearly all the angry appearance, the limbo will also enlarge patients die. Also there is a rare kind the and the tissues around the inflamed lymphatics "hard late bube," which appears after about will be swellen and cedematous. To this a fortnight in cases simulating typhoid faver. variety the term "cellulo-cutaneous plague" has been applied. The spreading ulcer, which is really a local gangrene, has been described as the plague "earbunele"; these forming on the skin of these affected were often referred to by old historians as a prominent feature in many ancient epidemics.

These cases however are somewhat common. The usual variety met with is the Acute Bubonic Plague. In this the patient is attacked with fover, and all the general symptoms of an acute infection, and on the first, second or sometimes the third day of the filness the characteristic bube appears. The common site is among the glands of the groin, for the reason that these glands receive the lymphatics from the lower limbs and from the lower portion of the trunk up to the level of the navel a larger area than that drained Other sites for by any other group of glands. Bubo formation are the arm-pits, the glands of the neck, those about the angle of the faw and below the chin, and very rarely the little gland on the inner side and just above the clow, and the small glands behind the knee joint. In some cases, generally in association with Buboes in the groin, the deep glands of the abdomen can be felt to be enlarged.

These Plague Buboes are of different kinds and it is a matter of some importance in connection with treatment and the outlook as regards recovery, to recognise the type of Bubo present in each particular case. The common variety is the "soltening bubo." The enlargement increases comewhat rapidly and the hard swelling gives place to a soft doughy mass around which is a limited amount of serous effusion into the subcutaneous tissues. If the patient lives till the lith day or the reabouts this bubo will feel like a tightly stufed pincushion, or may give the experienced examiner the signs that the contents are of a finid nature. On lacision, pus and shreds of the disorganised gland will be evacuated, and under suitable treatment the cavity, though large, will heat up within a week or so. When these softening Buboes are allowed to rupture spontaneously a large foul cavity is produced; such are not unfrequently encountered among the poor, who have not received adequate attention during the stress of a plague epidemic.

Another variety of bubo obtains when the clands inflame and harden, the inflammation being so acute that the blood supply of the part is obstructed and the whole of the affected area is obstructed and the whole of the articlal ulcer sloughs out, leaving a large superficial ulcer malescant appearance. These of a very unpleasant appearance. These buboes are found where the inflamed glands are bound down beneath tense tissues, as in front of the ears and in the region of the groin. To this kind the term "indurated bubo" has been applied. Another variety the "cedomatous bubo" occurs in the neck and the arm-pit and in them the serous effusion into the tissues around the glands, present to a less extent in the common type is the essential feature. The whole arm-pit or the side of the neck may be distended by the accumulation of fiuld under sometimes retarded by the formation of curonic

and lastly there are some soft buboes which abort and shrink with the rapid subsidence of the "shrinking bubo." fever—tho The fever continues from the outset with elight emis-sions; it is generally about 103° to 104°, but It may rise to a great height from almost the initial rigor. On the third day the temperature tends to approach the normal, and almost immediately rises again. Should it rise to a point above that of the maximum temperature preceding the remission the outlook is bad; but in cases which are likely to do well it rises to a point which is less than that of the preceding maximum, and after about three days gradually falls to normal, with slight daily oscillations depending on the amount of the suppuration in the bubbes and their local condition.

It is to be understood that this disease is of such great virulence to human beings, on account of the early appearance of the plague incilius in the blood-stream, that there are many instances in which death occurs before the bubo has had time to undergo the changes described above or even to form. The more acute cases are also liable to be a typical in their mode of onset. Some are taken with a wild delirium in which they are likely to attack those about them; others suffer from vomiting of blood followed by rapid failure of the heart and death: pregnant women miscarry and practically all of them dio: and lastly there are cases where the general and local symptoms are slight and yet fallure of the heart may suddenly ensue within a few hours of the onset. These so-called "fulminant" cases are generally met with at the commencement of every epidemic: in some of the descriptions of mediaval epidemies they seem to have been in the majority, and it is on account of three that plague epidemics appear so terrible to the occupants of the plague-stricken town. Fortunately, however, there is a large majority of cases which allow some scope for modical skill. The condition of the patient after the full development of the symptoms is always one which gives rise to great anxiety. The mental condition becomes dulled, which, while it mitigates considerably the distress of the sufferor, is nevertheless an indication of the action of the plague poison on the nerve contres. The eyes are suffused and often acutely congested. There were become with which is a but sign as it indicates may be cough, which is a bad sign as it indicates either a secondary pneumonia or the onset of an acute bronchitis, the direct result of the fallure of the heart. If the latter progresses the breathing becomes more rapid, the pulse weak and almost uncountable at the wrist, the skin cold and clammy, and towards the end covered by profuse perspiration: finally, the breathing becomes irregular, and after several long-drawn gasps the patient breathes his last.

In other cases however improvement starts. about the fourth day, the temperature gradually falls, and the mind clears: the bubo suppurates in due course and heals up, and the patient passes into a slow convalescence, but which is

absence, bolls, attacks of heart failure or of fluid which contains the player by 1000 in almost pulpitation; or ulcors of the cycled with pure culture. The fover is very like and the infection of the whole playe and consequent interference with regressive branchists, and loss of sight. Some recover with permanent death occurs from the execute to the fourth day, mental enfectionment, or peristent tensors. A culture for about present is those is that of the limbs with difficulty in speaking with one such care to fail to give rice to others of clearness.

Septicaemic Pingue.

DENGUE FEVER.

ensive epidemic on the castern side of the sometimes also pain starts amin in one of the odd Peninsula, and quite recently there has fonts, or he is crippled by suffices of the back can a bad outbreak in Calcutta. It is more of the fonts, or he is crippled by suffices of the back can a bad outbreak in Calcutta. It is more or of several of the highest of the back or of several of the highest of the pairs of the pairs, the same course but as a rule less evere and mediums a red foxed, and intense pain. These is no drug which will cut short the distinct overly the highest of the book or in the case. From its illusaress to rheumatism the saling of the back, or in some of the joints either expressed, and the pairs amin in one of the book of the bonts, and in the lack from the pairs are in the saling of the pairs in the bonts or in the case. From its illusaress to rheumatism the saling of the back, or in some of the joints either expressed.

eight days, during which in rare cases there may excruciating pains must be treated with more further symptoms due to the appearance of phila.

It is often impossible to distinguish the maindy here is intense shooting pain into the little here is intense shooting pain into the little from influenza until the appearance of the rash, rather than the intensity of the symptoms rather a very serious aspect to the case, layer a very serious aspect to the case, the bites of a mosquito, and that this poison that a fatal issue is almost unknown. After the target of Yellow Fever.

the rame tyre.

Treatment of the Discase.

This term is applied to certain forms of neute. No second crackfully in his sector from the bubbes do not form, or where while had dishibling the mentality of the sick, ere is uniform but slight enlargement. Much cas, however, be done by medical firsts glands in various parts of the body with sympe ment. Abother each is required and the start misleading, incomend as most cases of acute. Drugs which return he are simple that are really sopticasemic from the ed almost from the outset, and frequently then itself. These cases are either acute, ending have to be admistered by the sharps well as tally about the third day or sconner; or are the much. The houses should be founded in acute, with symptoms simulating typhold till they soften, and frequently the cases are distart about a british. In turnels, The houses should be founded in acute cases large dusty patches of bloods ministration of each mass give relief. This misons beneath the skin, the so-called plague can be dished in India with most differently care for much give relief. This most had a contract for the recommended from the may be easily as inside the recommendation have This term is applied to certain forms of neute. No exerum or antife aim has an far trovel of Pneumonic Plague, carily at imilial is to, and complication have to be met as they arise, As regards prophysics in the imagend causes rapid consultation, large patches of the lung tissue scattered the first throughout the constraint and the large patches of the lung tissue scattered these statements are the light specified all discrements Large patches of the lung tissue scattered these statements are the light specified all discrements Large large patches are the light specified and discrements. regularly throughout the organs; with a con-horatory at Parl, It may be said that its use detable amount of orderns, so that the lunes gives a threshold chance of escape from attack to engorged with blood, are large and heavy, and a reduction of casy mortality by they id the bronchial tubes filed with reddish frothy jet cent.

Dengue fever, otherwise known as Dandy fever ables somewhat alreadly, and at about this time Breakbone fever, is rather common in India a second rash appear, most restind over the id is generally present in the larger town, but absulders and neck, and on the larges of the it appears in manifold forms and various wri- arms, or cless an universal rash. It is of a dark described it disconting the larger town and the larger town. is describe it differently, its identity is not red colour, often very like the rish of scatlet limays recombed; and, therefore, by many fiver, or it may be like that of measles. With redled men is thought to be less common than its appearance the more severe symptoms sub-really is. On occasions it is its time. really is. On occasions it gives rise to very slie. During convalueence the patient is much ide-spread epidemics. In 1992 there was an ex-depressed, and the pulse n mains unduly rapil.

hey are generally laints of the joints either cylates are generally used, and perhaps relieve nail of the back, or in some of the joints either cylates are generally used, and perhaps relieve tree or small. Sometimes there is no complaint the paints. This drug should be combined with rge or small. Comments there is intense pain an ordinary fever niture: large dozes of brochind the eyes. The fever lasts for three or milde should be given for the headache, and the child the eyes, during which in rare cases there may excueding pains must be treated with mortality days, during which the appreciage of the comments of

CHOLERA.

This is one of the most important diseases persed over the country-side by the returning it India, having been endemic therein for many bands of pligrims. The deaths in British India undreds of years. It is always present in the from this disease in 1911 numbered three hundreds and sometimes extends over large discountry, and seven thousand. The ries generally from some crowded centre such that the site of a pligrimage, from which it is discountries of special importance to the numerous is the site of a pligrimage, from which it is dis-

exciting came to the "comma baciline" discidurer, and in others there is no expactly left and experted by Rech, i) called from its slape when in the patient for the absorption of drugs adjuncted and states. The delects of a ferson matastered by the month. The mortality has latted and states, The delects of a ferson matastered by the month, the mortality has latted and states, when contaminate more representations from the discase, when contaminate from the slape of directly into the velocity for the relative first first first late is at late to give maters upply, which may become and also by the introduction of saline fluid into some maters upply, which may become log the roll, are liable to g t washed by the rains fluid into the skin or directly into the reins, into some mater-supply. Which may become and also by the introduction of salins fluid of the source of almost unlimited infection. Such particular strength into the abdominal cavity, the source of almost unlimited infection. the source of alm of unbinited infection. Such a contaminated drashing nater is rendered instruction by bothers or filtration through a Particular by bothers or filtration through a Particular filtration of the fact that the fellow was exentially water bonne. If can also be conveyed by flick withing on food. rettling en food.

The disease has an incubation period of from the insease has an incuration period in from to seven days. After a premontion diarrhora with collecty pains facilities for half diarriora with concey pains fasting for hair a day or longer the nature of the illness is an advanced by them purchag and comiting, the Phose before the purging appears, the so-called "chilera steen." In the common form collaine and its and marked, the extremities are blue invaled Beneal, and is now often seen in Callard and marked, the extremities are blue invaled Beneal, and is now often seen in Callard and marked, the extremities are blue invaled Beneal, and is now often seen in Callard and marked, the extremities are blue invaled Beneal, and it is also fairly often met with in Made and coll, the skin shunder, the heart weak, though it is also fairly often met with in the surface temperature below normal, though ras, though it is very rarely seen in Bombay, and the temperature taken in the mouth shows ones. It is very rarely seen in Bombay, and former having the peculiar character of rice-traier. The Johon may be so intense that death takes the surface remperature below normal, though the temperature taken in the month shorts high fever to be pre-int. There is a curious planched expression of the face with deeply sunkpurely expression of the large with deeply sum-en eyes, and the path at endeavours to com-ministic his wishes or fears in a hourse whismunicate his wishes or tears in a nonre willsner. He is further distressed by pointuicramps in
the muscles of the calf and abdomen, and there
is suppression of the functions of the idences.
Thesis processing takes whose in sale size and state. Should the patient enrise he passes of prophylaxis which have been put into force that the patient enrise he passes since knowledge has been acquired about its since the stage of reaction, the unfavourable symposine and gradually passing into the stage of reaction, the unfavourable symposine and gradually passing in the stage of the stage of the second of these cases which of the disease are likely to be limited. It is considerence. In some of these cases which very rare among Europeans and then almost environments of recovery there is a relapse, the control of recovery there is a relapse, the control of the algorithm that is a considered as a large of the diseasunation of the country. If suppression of the functions of the fauncys.

Death generally takes place in this the addition of the patient earlies he pases take. Should the patient earlies he pases to be passed to the stage of reaction, the unfavourable symptoms discovered to the passed of the conditions of the aight state recently been re-death taking place. It has recently been re-cornied as a cause of the differentiation of the disease, that patients who have recovered will continue to discharge the bacillus for many Wecks.

The prevention of cholera lies in attention to vater supplies, and in boiling and filtering as a matter of routine in Indian life. All the distance that the tech should be treated with charges (1011) and solled clothing and linen destroyed. People who have to tour in choleratroyeu. recipie who have to cont in enough a stricken districts, or who go on shooting excursions, or who find themselves in the midst of a choiera outbreak should undergo inoculaof a choicra outbreak should undergo inocula-tion with Hafkine's preventive vaccine. Two inoculations are required, the second being more intense in its effects. The temporary symptoms which many arise after the inocula-tion are sometimes severe, being always more marked than after inoculation against typhoid, that the wrotestion afforded more than makes

Himner both on print to and action 27 it to the strategy with attended marmille. The extreme collapse with attended marmille. The results a materi-ime discreamid the but in some case this is not unattended with rathing came it the recomma leading disclosive rand in others there is no expectly left material came in the recomma leading of the material for the absorption of drugs advanced by Each Committee from its shape when in the national for the absorption of drugs and provided for the case of the

This is a slowly progressive disease assoclifed with great enlargement of the splent and some enlargement of the liver, extreme envertee chargement of the nver, extreme enverted and a fever of a peculiar type characterised by rumisions for short periods; and due to infection by a parasite of remarks and characteristic periods; and the to injection by a parasite of remarkable characters which have only recently been worked out. It is attended with a very light mortality, about 90 per cent., and has up to the present restreed all methods of treatment, the present restreed all methods of treatment, about 90 per cent. atthough come patients appear to improve for a time, only in the majority of eases to

ones. It is very rarely seen in Bombay, and then only in immigrants from infected localthe day in management from intected local-lites, through there appears to be a mild en-demic centre in Jabalpur in the Central Prodemic centre in anouspur in the central rady where; so it is likely to be more frequently with the western side of India. It has not written and the western side of India. met with on the western side of india. It has caused great mortality among the coolies on the tea-plantations of Assam, especially among the children; but under the recent measures of prophylaxis which have been put into force since knowledge has been acquired about its

Infection seems generally to start in the cold weather. There is fever with rigors, and progressive wasting and loss of energy. The temperature chart is a curhus one, the fever temperature chart is a curhus one, the five fever temperature that is a curhus one, the five temperature that is a curhus one, the five temperature that the fever temperature during the temperature. showing two remissions during the twentyshowing two remissions during the twentyfour hours. Diarrhon is common, especially
during the later stages of the disease. The
during the later stages of the disease. The
spicen enlarges early and is generally of enorspicen enlarges early and is generally of enormous size producing building of the abdomen,
A remarkable feature is the tendency to the
A remarkable feature is the many cases;
formation of ulcers, which in many cases;
formation of ulcers, which the form of a
especially in children, takes the form of a
especially in children, the mouth and check,
gangrenous ulceration of the mouth and check,
inflammatory condition, often pneumonia.

The parasite is found in the spicen and liver symptoms which may arise after the inocular ton are sometimes severe, being always more marked than after inoculation against typhoid, marked than after inoculation against typhoid, the protection afforded n.ore than makes but the protection afforded n.ore than makes to the protection afforded n.ore than makes in the protection afforded n.ore than makes to find the protection afforded n.ore than makes in the protection afforded n.ore than makes to the protection afforded n.ore than makes of these conditions of these organs.

During the choices season the mildest cases of diarrhea should be brought for treatment of diarrhea should be brought for treatment to a physician, as such persons are more liable to a physician, as such persons are more liable than others to contract the disease. The parasite is found in the spleen and liver

organista developi occide the harman book. But to the second to have out of his distribution of the is not yet completely known. It is certainly have close in this country when follow the a house-infection, which accounts for the littled of the six.

manner in which whole familles have been. There is a source form of alteration of the every off, one member after another. Its precises has been stayed by moving families for known as "helfit foll" form which receives has been stayed by moving families organized very class at the left-man-blaco-room their lateral houses and burning down that former quarters. This, and other facts (These belies have also been cultivated outside connected with its spread, have suggested) the forman had and found to develop have that the agent for conveying the potent form, that that it excelled. The two parasites, therein man to man is the common believe, and closely allied, are nevertheless distinct.

DRUG CULTURE.

ndia, by Mr. David Hooper, of the Indian Museum, Calcutta, and by Mr. Puran sinch, of the Indian Forest Department, Debra Dun, have lately been published. Mr. Hesper, in his paper, states that one-half of the drugs in British Pharmacopoula are indicenous to the East Indies, and hearly the whole of the rest could be cultivated or exploited. The following are given at those that could be grown in quantity and as worthy of the attention of cultivators and capitalists :-

Belladonna, most of which is still imported, grows well in the Western Himalayas from Simia to Kashmir, the Indian grown plant containing 0'4 to 0'45 per cent. of alkalald.

Digitalis is quite acclimationd on the Nilgiria. prowing there without any attention. The Madras Store Department obtains all its requirements from Ootacamund, and the leaf has been found equally active to that grown in England.

Henbane is a netive of the temperate Himalayas from 8,000 to 11,000 ft. It was introduced into the Botanic Gardens, Saharanpur, in 1840, and it has been steadily cultivated there up to the present time, and the products sup-plied to medical depots satisfy the annual demand.

Ipecacuanha has been raked with a small measure of success in the hilly parts of India, and it only requires care and attention to raise it in sufficient amount to make it commercially remunerative.

Jalap-root grows as easily as pointoes in the Nilgirls, and there is no reason why the annual requirements (about 4,000 lbs.) for the

Mr. Puran Singh discussed the subject in a It is to provide de number of the "Indian Forester in 1914": he ; capitalist to embatk states that most of the drugs in the British Phar-singh advocates the macopula grow wild in India, and that there is to go into the matter. He surgests that India already a large export trade for some of them. Is well worthy of attention by those in this coun He adds, however, that materials collected at try who are interested in extending the cultur

no monographs on the cultivation of drugs random cannot be expected to fetch full prigns, as they reflem come up to standard quality, and he adde: "The few drugs that are not made ernous to India could easily be made to grow in with part or other of the and lamb. The great advantage accruing from the systematic cub-tication of draw is that a regular supply ogenuine drugs of standard quality is nesured. The variation in the quality of will become drug is sometimes a very serious drawback to finding a residuale market for them. The quality of Peterfection kneed growing wild in India is at illustration in point. This plant was discovered by six George Watt in the year 1-55, and now, even after twenty-four years, in which it has been shown to be idealted with the Ame tiran drug that is being employed for pharma centical purposes, it still remains unrecombine by the British Pharmacoparia, which, as ex-plained by the "Chemist and Drumi t" somtime ago, is solely due to the uncertainty which still exists as to its physiological orthity."

Mr. Singh also points out that the Indian consumers of medicine depend mestic on but growing wild in the Fore-te, the more lemort ant of these probably numbering at least 1,1800 This links i product a number of a first Alexa This links links the possibilitie in the Punjab alone being put at Re. 50,00,000 He mentions entron, figurates, and saley a products exotic to India, whose cultivaties in this country looks full of promise. Mr Small suggests that a complete survey be made of the extent of the faland trade In medicina products found growing will in Indian forest in order to arrive at the figures of annual con-sumption, and that the fore-t areas where the most important drugs grow should be preserv Medical Stores of Bengal. Bombay and Madras best methods of cultivation, and if need be, the should not be obtained from Octacamund.

The Board Stores of Bengal Bombay and Madras best methods of cultivation, and if need be, the means of extending the artificial and the statement of extending the artificial and the statement of ed. Inquiries should be instituted as to th

that have quintupled its output, 2,235 arms prophysicite arche to alasts, or for the their planted with chickma valued at Rs. 7,65,000, of path or in its to atment in disbetter. It is planted with chickma valued at Rs. 7,65,000, of path or in its to atment in disbetter. It is a reserve of quintured from the value of nearly in fact a hour-hold remain for many Hs. and bark valued at Rs. 2,05,055, making a cating of optima is 1 a information that its rotated of Rs. 29,18,000. One of the most consumption of all children may other countries total of Rs. 29,18,000. One of the most consumption of all children may other countries been Sir Goorne Kings system of laying the people of India discretion in the new of hereaft of the health of the people of india his the people of India discretion in the new of the season produced from chickman, and its india life. These reaching the fatter felton in Testing relationship in a country post office in India, should be the produce of the policy This scheme has proved a commercial success, from a lattice the all the gradue applies and has been of immense benefit to the instantial the state of option to obtain, a fraction and has been of immense benefit to the literature of the policy in the first post of the policy in the second of the policy in the second of the policy in the post of the policy of the post offices.

Next to optimize the state of the post commercial success, but the post offices.

Intoxicating Drugs.

men drigs are the three home per held which are freely used themsent lighted hedia. The Among the drugs which are of great mellicial and lawer of actions, and cultivated in the fadily, but of which the misuse has been a fallow. The lawer of actions, and cultivated in the source of crime and disease among the people and dried in the sum, coefficient behand, a source of crime and disease among the people and dried in the sum, coefficient behand, a copium (for details of the trule see article) and dried in the sum, coefficient behand, a copium which is the olist and the best exhibiting of greater, software by a felling of on opium which is the olist and the best exhibiting of the disconnection of the disconnection of india, dated August 10, 1912, adopted the cultivated they exade a polinear pilot, which is the properties save by an individual of a small cultivated they exade a polinear pilot, the first process problem as ground ganja," and the first process problem as ground for the form which I gislation should take way form of heap thus thene, red is used for the form which I gislation should take way form of heap thus thene, red is used for the form which I gislation should take way form of heap thus thene, red is used form of heap thus thene, red is constituted an assembly of three or more persons for the purpose of smoking opium should be made illegal. In adopting this policy Government attitud as large quantities of there are large quantities of there are proposed and after the purpose of smoking opium should be made in the country, and used over the northern opium cating. Opium, stid the Besolution, by way of Leb. This is sold over the northern as taken in moderation by the average inflant part of the country, and used for smoking is exten either as a mild stimulant, or as a purposes. Indian housels a shoul province will in the hills

The Cocaine Traffic.

aine Hydrochloride. This rult forms light sing crystals, with a bitterish taste, and is blo in half its weight of water. The alkaloid ilne-of which this is a salt-is obtained a the dried leaves of the Erythroxylon Cocawhich grows in Bollvia, Peru, Java, Brazil . other parts of South America. The leaves are st active when freshly dried and are much d by the Natives as a stimulant. Tea made m them has a taste similar to green tea and said to be very effectual in keeping people ake. In India the Coca plant seems never have been cultivated on a commercial scale. has been grown experimentally in the teatricts of Ceylon, Dengal and Southern India I has been found to produce a good quality I quantity of cocaine. As the plant has not accriously cultivated and as there is no ty for the present of the drug being tured in India, no restrictions have as a placed on its cultivation.

tions in spite of legislation and strict tive measures is of comparatively recent though it is impossible to estimate despread it was in 1903 when the Bombay Court for the first time decided that was a drug included within the definition atoxicating drug in the Bombay Abkarl lince that date the illegal sale of cocaine a has largely increased and the various ial Excise Reports bear witness to the drug, which is notoriously harmful, are found in all classes of society and in Burma school children are reported to be its ms; but in India as in Paris the drug is lly used by prostitutes or by men as an odisiac. The habit has spread chiefly ose classes which are prohibited by religion use rules from partaking of liquor and the known Indian intoxicating drugs.

ports from Europe.—Cocaine and its drugs are not manufactured in India, but exported from Germany, France, England aly. Most of the drug which is smuggled ndia, comes from Germany and bears tho of the well-known house of E. Merck, stadt. This firm issues cocaine in flat stadt. is of various sizes ranging from 1 to 3 s which are easily packed away with other s and greatly favour the methods of lers. Owing to its strength and purity e caters prefer this brand to any other market. Restrictions on export from e have been under consideration for some out as yet no international scheme devised it end has been agreed upon.

uggling.-So far as the cases already ed show, the persons who smuggle the by sea from Europe and places outside ninto India, are chiefly sailors, stewards, n and sometimes engineers and officers Austrian Lloyd and Florio Rubattino S. ipanics. The ports through which cocaine India are Bombay, Karachi, Calcutta, also contains s. Marmagoa and Pondicherry. The house owners inland distributing centres are Delhi, cocaine sellers.

he form of cocaine chiefly used in India is | Lucknow, Meerut, Lahore, Moeitan, Surat and Ahmedabad. Delhi especially is notorious for the cocaine trade. Great ingenuity employed in smuggling cocaine through the custom houses. It is packed in parcels of newspapers, books, toys and piece-goods and in trunks which have secret compartments. The retail trade in the towns is very cunningly organized and controlled. In addition to the actual retailers, there is a whole army of watchmen and patrols whose duty is to shadow the Excise and Police Officials and give the alarm when a mid is contemplated. Owing to the war and the consequent diminution of supplies the cocaine hawking trade has practi-cally disappeared in Bombay. The largest solzures of cocaine made during the year 1916-17 were 11,655 grains by the Police Department 4,244 grains by the Customs and 851 grains by the Excise Department. Since the outbreak of the war attempts have been made to smuggle Japanese cocaine into Bombay,

Price.—The amount seized is either given to Hospitals in India or destroyed. no longer possible to buy cocaine from any betelnut seller as it was ten years ago, but scores of cases in the Police Courts show that the retail trade thrives, though to a diminished extent, in Bombay, High profits ensure the continuance of the trade, At present the English quotation is 33 shillings and 2 pence per ounce and the price as sold by licensed chemists in India is about Rs. 36 per ounce. Owing to the war and the consequent stoppage of illicit importations from Austria and Germany it is not possible to buy the smuggled drug from the wholesale dealers for less than Rs. 100 to 120 per ounce and when sold by the grain the price realized varies from Rs. 400 to 425 per ounce, These profits are further enhanced by adulteration with phenacetin and inferior quinine.

The law in regard to Cocaine.—This varies in different provinces. A summary of the law in Bombay is as follows: No cocaine can be imported except by a licensed dealer and improtation by means of the post is entirely prohibited. The sale, possession, transport and export of cocaine are prohibited except under a license or permit from the Collector of the District. A duly qualified and licensed Medical practitioner is allowed to transport or remove 20 grains in the exercise of his profession; and as far as 6 grains may be possessed by any person if covered by a bona fide prescription from a duly qualified Medical practitioner. The maximum punishment for illegal sale, possession, transport, etc., under Act V of 1878 as amended by Act XII of 1912 is as follows: Imprisonment for at term which may extend to one year or fine which may extend to Rs. 2,000 or both and on any subsequent conviction imprisonment for a term which may extend to 2 years or fine which may extend to Rs. 4,000 or both. The law in Bombay has been further amended so as to enable security to be taken from persons who have been convicted of cocaine offences. The new Act also contains a section for the punishment of house owners who let their houses to habitual

INDIAN TOBACCO.

. but only two are . N. Tabacum and

is a native of South or Central America, and is the common tobacco of India. About the year 1829 experiments were conducted by the East India Company towards improving the quality of leaf and perfeeting the native methods of curing and manufacturing tobacco. These were often repeated, and gradually the industry became identified with three great centres: namely, (1) Eastern and Northern Bengal (more especially the District of Rangpur); (2) Madras, Trichi-nopoly, Dindigui, Coconada and Callcut in

Southern India; and (3) Rangoon and Moul-meln in Burma. Bengal is the chief tobacco growing Province, but little or no tobacco is manufactured there. The chief factories are near Dindigul in the Madras Presidency, though, owing to the imposition of heavy import duties on the foreign leaf used as a cigar wrapper, some cigar factories have been moved to the French territory of Pondicherry,

The question of improving the quality of Indian tobaccos has received the attention of the Botanical section of the Agricultural Research Institute, Pusa, and three Memoirs have been published recording the results of investigations in that direction. The immedinte problem at Pusa is the production of a good cigarette tobacco. Many attempts have been made in the past to introduce into India the best varieties of eigarette tobacco from America, but the results have been disappointing. It is now hoped to build up by hybridiza-tion new kinds of tobacco, suited to Indian conditions of growth, which possess in addition the qualities necessary to obtain a better price.

Mr. James McKenna in his recent reports on "Agriculture in India" writes:—

"The ordinary Burman and Indian eight has an increasing popularity—about 12 million pounds are experted—and experts increase. It is a cheap and a good cigar, but it is capable 52,00,000.

The tobacco plant was introduced into India of improvement, principally by a better outer by the Portuguese about the year 1605. As held or wrapper of finer tobacco. We should in other parts of the world, it passed through therefore aim at increasing the outturn of a period of persecution, but its ultimate distribution of persecution, but its ultimate distribution of the provided in the provided with the provided in the provided with the pr amples of the avidity with which advantageous selection of leaf, and at decreasing the imports new crops or appliances are adopted by the of foreign eigarettes by producing tobacco new crops or appliances are adopted by the of foreign eigarettes by producing tobacco new crops or six species of suitable for this purpose. The present coarse varieties seem to meet the local taste and that of our main export markets, which are Aden and its Dependencies and the Par East. There is, however, no reason why these local varieties should not be brought to their highest perfection by selection or why improvements should not be possible in curing. The most paysing commercial problem, however, is to oust the foreign cigarette. This question has been taken in hand in Bengal and Bombay, where ciloris are being mode to establish exetiva. These have met with only qualified success. We can only say, so far, that experiments continue, but whether they will prove commercially successful remains to be proved and indeed a cus somewhat doubtful. That the process of ousting the foreign cigar-tie is will advanced may be seen from the latest report on the Maritime Trade of Bongal, which remarks "The cheap Indian-made eightitie continues in great demand, the largest supplying centre being Monghyr, where prihaps the most upto-date factory in the world turns out inco dible quantities daily. From the rallway station for this factory no less than 10,032,000 lbs, were export d in 1916-17.

The annual average import of tobacco into India is valued at Rs. 71,07,000. In 1915-16 this figure rose to Rs 80,15,000 and in 1916-17 to Rs 1,25,13,000. The increase in imports is accounted for by the larger receipts of cigarette and also by a higher level of prices for manufactured tobacco. The imports of elgarettes from the United Kingdom reached the record figure of £2.230,000 out of the total imports £2,404,000. There was also a large increase in the imports from the United States and Australia. The number of cigarettes imported was 906 millions as compared with 620 millions in the preceding year and 633 millions, the pre-war average. The increase was largerly due to the large demands for army purposes.

The value of the exports of tobacco was R5

Tata Iron and Steel Co., Ltd.

The Tata Iron and Steel undertaking is the considerable manganese properties at Rammuna freatest of the modern industrial enterprises in the Central Provinces, which have already in India and will rank with the large concerns of the kind in Europe and America. The gigantic project owed its inception to the genius and enterprise of the late Mr. Jamsetjee Tata, of the firm of Mesers. Tata Sons & Co. Before the formation of the Company, the best brains of Europe and America were utilised in examining into the possibility of establishing in India a freat fron and steel industry on a paying basis, and no efforts were spared to render the investigation as thorough as possible. No less than Its, 5,50,000 was spent in the investigation before Mesurs. Tata Sons & Co. established to their satisfaction that such works could be erected in India with every reasonable prospect of success. The site eventually fixed upon roa at Sakchi, a village in the Singhbium District of Chota Nagpur, some two miles rom the station of Kalimati on the Bengal focur Rallway.

Within reasonable distance of Sakchi, which ids fair to become the Pitteburg of India, try large deposits of high grade fron ore were becovered in proximity to coal of a coking agracter suitable for the manufacture of pig on at a very low figure. Two rich fields containng very large supplies of this ore were secured n suitable leases by Messrs. Tata Sons & Co., no situated in the State of Mourbhan) and the ne stuated in the State of Mourbhan) and the ther in the Raipur District, the intention eing to limit operations for the present to the lourbhan. Hills, in which 7,000,000 tons of re had been proved to exist on the lower ridges lone. Numerous analyses have proved this me to contain on an average over 60 per cent. If metallic iron. The royalties payable under the lease based on an appraisal output of 2 50 000. he leases, based on an annual output of 2,50,000 ons, average 2.4 anna, per ton for the first O years and five annas per ton for the succeedag 30 years. These ore beds are some 40 miles is rail from the site of the company's works. Messrs. Tata Sons & Co. received from the company in full settlement for the transfer

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母が行為をおいればい

if all mining rights, concessions, leases, etc., which they have acquired, and in full settlement of all expenses of investigation incurred y them prior to the formation of the Company, 20,000 fully paid-up Ordinary Shares of Rs. 75 each, equivalent to a payment of Rs. 15,00,000 and in addition a lump sum of Rs. 5,25,000 in cash. In addition to these payments the syndicate of gentlemen who were instrumental in the actual formation of the Company received as remuneration for their services, 1,300 fully paid-up Ordinary shares, equivalent to a payment of Rs. 97,500.

Sakchi Works.

The Company's works were originally designed for an annual output of 120,000 tons of plg fron, and the conversion of 85,000 tons into 72,000 tons of finished steel. The average imports into India of fron and steel of the classes which it was intended to produce amount-ed to approximately 450,000 tons per annum, that the company had at its doors a market largely in excess of its present productive capacity. On all ore sold as ore or exported, Mesars, are to be taken from the prata Sons & Co., are entitled to a royalty of 4 towards the new capital and annas a ton. The company further possesses ence Capital may be issued.

in the Central Provinces, which have already been connected by rail with the Bengal Nagpur Rallway and are a source of considerable revenue.

The following conce-sions were granted by the Government of India to the Company :-

(1) The purchase by the State of 20,000 tons of steel rails annually for a period of ten years subject to the condition that the rails comply with the Government specification and that the prices be not more than the prices at which similar rails can be delivered c.i.f. If imported into India.

(2) A reduced rate of 1-15 of a pie per maund per mile, equivalent to .15 of an anna per ton infle, on all raw materials to the works, subject to a minimum mileage charge and to revision at the end of 10 years. The reduced rate has also been made applicable to all finished products and by products despatched for shipment from Calcutta.

The entire cost of the original works, excluding the present extensions and inclusive of the purchase of mining rights, collieries, and all charges incurred in the construction of the town of Sakchi, for the housing of the small army of the company's employees, was put down at its, 2,40,00,000 and it was estimated that on the average prices ruling during the ten years 1896 to 1905 the manufacturing profit, assuming a sale of 35,000 tons of pig iron and 72,000 tons of finished steel, would, after meeting working expenses, depreciations, etc., amount to its. 24,16,000. This sum, it was calculated, would after meeting interest on debentures and commission payable to the Managing Agents, enable the Company to pay the stipulated dividends of 6 per cent. on the preference capital, 8 per cent. on the ordinary capital, and 25 per cent. on the deferred capital, and leave a surplus of approximately 18.5, 7,15,000 for distribution in equal shares between the ordinary and deferred capital. The above estimate of profits was made on the original capacity of the works, but aloco then two more open-hearth furnaces have been added and other improvements made in the plant, thus increasing the capacity of the works.

Finance.

The Company was registered on 26th August, 1007. The Chairman of the Board of Directors is Sir D. J. Tata, Kt. (Tata Sons & Co.), Special Director. The following figures explain the financial arrangements of the company, including provision for great extensions sanctioned in 1916. Capital authorised and issued in 1016. Capital authorised and issued Rs. 3,52,12,500—Ordinary Capital Rs. 2,62,50,000. Preference Capital Rs. 75,00,000. Deferred Capital Rs. 14,62,500. Capital subscribed on the 30th June 1017 Rs. 2,31,75,000—Ordinary Capital Rs. 1,50,00,000. Preference Capital Rs. 75,00,000. Deferred Capital Rs. 6,75,000. Amount called up Rs. 2,31,75,000—Ordinary Shares Rs. 1,50,00,000. Preference Shares 75,00,000. Deferred Shares Rs. 6,75,000. In addition, Debenture Capital to the extent of Rs. 1,01,00,000 was Issued. Also, 14 crores are to be taken from the present large profits towards the new capital and 14 crores Preference Capital may be 1-sued.

Present Position.

The Company's criginal construction work as charten in August 1907, and the construction and equipment of the work were regarded as rectically completed by the end of June, 1912, t a total capital outlay on that date of Rs. 25,00,000. The blast furnaces worked well the form the start and turned out the start and turned out. ne started in August 1907, and the construction rom the start and turned out plg fron of excellent The steel furnaces gave a considerable nality. mount of initial trouble, but these difficulties rere completely overcome. The annual report of the Company, Issued in October, 1917, showed n the company, issued in octoor, 1911, showed the het profit during the year ending 30th June, 1917, amounting to Rs. 1.10,70,622 which with the sum brought forward from the receding year's account, made a total sum of Rs. 1.11,54,015. Dividend was paid on Preference Shares for the twelve mouths ending 20th June at the rate of 6 per cent. per annum less income tax, on Ordinary Shares at the rate of 20 per cent, per annum and on Deferred shares 201 per cent, per annum, both free of income-tax. The Chairman of the Company in the course of his speach at the annual meeting in October 1917 remarked with satisfaction upon the valuable aid the Company had been privileged to give Government in connection with the war and said the war had taught them that they must spare no efforts now to develop all their resources, not only in their own interest, but in that of the Empire with whose destinies their are linked :

"One of the immediate effects of the par will be a shortage of tonnage. And I may say in this connection that your Company has begun seriously to think how best it can serve the future commerce of this country by supplying her with tonnage built from your steel and in Indian Shipyards. We hope to have Plate Mills working at Sakehl. As a matter of fact it was one of the earliest extensions we contemplated. And I am ardently looking forward to the day when this country will supply her share of shipping to the world, a prospect which I may state is not beyond the pale of taught us also the lesson how strong a defence the commerce of the world needs against the ranges of manuders. I trust, we in India shall not rest content till we produce in this country slups and armaments of war for the defence of our trade and shores with the cooperation of Government and the large British armament manufacturer-....

Exploration in Mourbhanj State resulted in the location of eight deposits of iron ore within from 12 to 23 miles from the present mines, all being surface deposits which can be mined easily and cheaply. Test pits indicate the presence of about double the amount at the present mines and of at least equal quality. The magnesite deposits in Mysore State are being worked at present, furnishing magnesite to the Kumardhubl Brick Works for being made into bricks for Sakchi; also deposits of both from ore and chrome ore have been located in this State, the chrome ore having been sirendy exported to the works. The

out for east in Rerea State in the Central Provinces and prospecting licenses have been taken in several other districts for other,

The Company's Employes

The daily average number of employees of the Company in 1917 was 10,225 men 207 somen. The number of European covenanted hands was 03 and the number of local European. employ s 51. The belance of labour is Indian In addition to the labour employed at Salchi mentioned above, the Company gives employment to approximately 0,000 laboures at its various mines and collisies. The above figure do no include the employes of constactor engaged in the work of improvements or ex-tensions. Various important nulture sub-art for the lenest of the employes have entaged the mind of the Board of Directors and the Management. They have a hospital where the employes and outsiders are treated free chairs. The number of patients treated in this hospital for the secondary of the secondary this hospital for the year ending Sist December 1016 comes to about 154,557, and of whom to to 45 per cent, were outsiders. There is a Consulescence I and from the interest of which poor employs who have no money to support themselves during the market during the market during the support of t themselves during the period of convalencence are helped. As the mant of a Convalence Home is much felt, arrangements are being made to have are helped made to have one built on the top of a neigh-bouring hill. There are three schools at present bouring hill. There are three schools at precal in Sakchi (a) Mrs. Perin Memorial School, (b) s Night School and (c) a Mechanics' School. The Mrs. Perin Memorial School is a Niddle English School. The average number of boys attending it is about 162. It is supported partly by the Company and partly by a Gorermunt grant-in-aid in the Night School, chokras and other employes of the Company who are desirous of learning English and Mathematics get free tuition every evening for two matics get free tuition every evening for the hours. The number of employes attended the Night School and the Night School are the Nigh the Night School is about 70. In the Mechanic School promising young boys of the missi class employed at the Works are taught ementary mathematics and drawing stages. mentary mathematics and drawing with a ver-to make them more efficient in their way. This school is also supported partly so the Company and partly by a Government evant. It has been proposed by the Government of Biliar and Orissa to start a Technological College at Sakchi, with the help of this Company.

Arrangemnts are also being made to interest the Servants of India Society to start (a) is Girls' School (A) and a society to start (b) Girls' School, (b) primary schools in the functional of the schools of the functional of the schools of the sch buy the necessaries of life at a reasonable rate, and (d) Credit Societies to help the working of the clutches of local money-lenders out Further, as soon as the Criminal Tribes Act is passed for this district by the Bihar and Orisa Government it has been decided to tuild a settlement at Sakehi for the ghasis, or sweper class of this district, to whom most of the critical Sakehi have been decided to the critical sakehi have been trained. at Sakehi have been traced. This settlement will be placed under a trained officer of the coal properties of the Indian Collieries Syndi-cate. Ltd., with all their tights, have been these charts and make them useful employs purchased. A Mining Leave has been taken of the Company.

The tompany has also built a fine Institute occur, blast furnaces, steel works and rolling for its employes, containing a concert hall, mills, a shift of 8 hours instead of the 12 hours a restaurant, billiard and reading rooms, tennis, which is the usual practice in Indian factories, courts, cricket and football growing and a londing alley. Any employed of the Company can become a member of this Institute without distinction of pay, colour or creed. For the convenience of employed lising in G. Town the Company has recently built a branch In-titute in that quarter.

Extensions. Owing to the increasing demand for the Company's products, extensions of the Company's works on a large scale are under contemplation whereby the works will be equipped to produce about 350 to 400 thousand tons of inithed Steel per annum. There will be a corresponding The Company, realising the harmful effect increase of coke overs, blast furnaces, open of long hours on workmen, has recently inhearth furnaces; also of the power plant and troduced in all its operative departments, coke water supply.

Industries Commission.

A resolution issued by the Government of tion, it has been found necessary to exclude two India in May, 1916, announced the appointment; matters from the scope of the Commission's of a Commission to examine and report upon the possibilities of further industrial development in India and to submit its recommendations with special reference to the following questions;-(e) Whether new openings for the protitable employment of Indian capital in commerce and industry can be indicated; (6) Whether and if so in what manner Government usefully give direct encouragement to the industrial development: (1) By rendering tech-nical advice more freely available; (2) by the demonstration of the practical possibility on a commercial scale of particular industries: (3) by affording directly or indirectly financial assistance to industrial interprises, or (4) by any other means which are not incompatible with the existing fical policy of the Government of India,

Scope of the Inquiry .- A note on the ngulry was issued in September which said:-The scattered information a'ready available regarding the resources of India in raw material, the suitability of the people for expert labour and the probable financial resources of the country, is sufficient to show that there are room and opportunity for a very substantial development of manufacturing and other industrics.

It will be the business of the Commission, after establishing this fundamental proposition by a critical analysis of the facts, to suggest the most profitable lines of action with the object:-

- (o) of drawing out capital now lying idic:
- (b) of building up an artizan population;
- (c) of carrying on the scientific and technical researches required to test the known raw materials and to design and improve processes of manufacture;
- (d) of distributing the information obtained from researches and from the results of experience in other countries; and
- (e) of developing the machinery for
 - (1) financing industrial undertakings and
- (2) marketing products.

Subjects Excluded .- The original Resolution expressly directed that certain matters should be excluded from consideration. In framing the terms of reference, said the Resolu-

matters from the scope of the Commission's labours. In the first place any consideration of the present fiscal policy of the Government of India has been excluded from its enquiries. When introducing the Gnancial statement in the Legislative Council the honourable the Finance Member, it will be remembered, stated in connection with the question of the cotton duties that the general fiscal relationship, which exists between the various parts of the Empire and other countres must in the opinion of His Majesty's Government be reconsidered after the war, and that in the meantime they wish to postpone any action that would tend to raise such questions. The same considerations ap-ply with even greater force to any proposals involving the imposition of duties for the specific purpose of protecting Indian industries, a policy which would very directly affect the fiscal relations of India with the cutside world. In the next place it is not proposed that the Commission should re-examine there aspects of technical and industrial education which have recently been dealt with by a committee work-ing in England and India, whose reports are at present under the consideration of the Govemment of India.

Personnel.-The Commission, as originally appointed, consisted of the following gentlemen:
President Sir T. H. Holland. Members,—Mr.
Chatterton, Sir Fazulbhof Currimbhoy Ebrahim, Mr. E. Hopkinson, Mr. C. E. Low, C.S.,
Pandit Madan Mohan Malaviya, Sir R. N. Mukkerkee, the Rt. Hon. Sir Horace Flunkett, Mr. F. H. Stewart and Sir D. J. Tata.

Sir Horace Plunkett was unable to serve on account of Ill-health

Mr. R. D. Bell, I.C.S., was appointed Secretary of the Commission.

The commission met in October 1010 and procceded on tour but in February, 1917, the appointment of Sir Thomas Holland to the presidency of the newly constituted Indian MunitionsBoard necessitated an interruption of the Commission's work for some months. The tour was resumed in November, 1917. Sir Themas Holland pre-sided over the opening session in Bombay, after sided over the opening session in boundary, and which he left the Commission and returned to his duties on the Munitions Board. The preidency of the commission was assumed by Bir Rajendranath Mukerji.

Calcutta Improvement Trust.

gested areas, laying out or altering streets, providing open spaces for purposes of ventiing buildings, acquiring land for the said purposes and for the re-bousing of persons of the
poorer and working classes displaced by the

Legislation. execution of improvement schemes.

execution of improvement schemes."

The origin of the Calcutta Improvement
Trust must, as in the case of the corresponding
Bombay body, upon which the Calcutta Trust
was to a large extent modelled, be looked for August, 1910. This measure was built up on
in the medical enquiry which was instituted the recognition by the Government that the
into the sanitary condition of the town in
1800, owing to the outbreak of plague. In
1800, owing to the outbreak of plague, in of the question of overcrowding and sanitaconsequence of the facts then brought to light, tion. The Bill, therefore, provided for a
Building Commission was appointed in April
1897, to consider what amendments were resquired in the law relating to buildings and R. 8.22,00,000. It was recognised that a
streets in Calcutta. That Commission recome great deal more could be spent with advantage. streets in Calcutta. That Commission recom- great deal more could be spent with advantage. mended certain alterations in the law, and the figure was not put forward as represented for laying out those portions of the town while unable to go into details, they recommended that in quarters newly laid out the roads and open spaces should occupy at least as much ground as the building areas. Pansion. Of these sums Rs. 336 lakis were as the property of these sums Rs. 336 lakis were as the property of the sums Rs. 336 lakis were as the pro As legards existing ovils, they thought that it was impossible to demolish any considerable portions of the City. All that could be done was to open out a number of wide streets and some open spaces. The Government of Bengal, some open spaces. The Government of Bengal, when it proposed to give effect to the recommendations of the Commission, adopted, as the work to be done, a scheme for constructing and improving 16; miles of roads which lad been drawn up by the Commission. This scheme formed the basis of discussion till 1904, when Conference was expressed by \$1.1 determined to the content of the conference of the content of the when a Conference was convened by Sir Andrew Fraser, then Lieutenant-Governor of Bengal. It was estimated that the Trust might in the ensuing 30 years have to provide for the housing of 225,000 persons, who would occupy 2,000 acres. The population of Calcutta proper, which includes all the most crowded areas, was 640,005 in 1891, and increased to 801,251. or by 25 per cent., by 1901. The corresponding figure according to the 1911 Census was 896,067.

The Conference of 1904 recognised that in view of the peculiar situation of Calcutta, which is shut in on one side by the Hooghly and on the other by the Salt Lakes, its extension in a regular zone is impossible. The Conference, after carefully considering the ques-tion, came to the conclusion that "arms" or "promontories" should be thrown out in five directions: on the north, north-east, eact, south and south-east, and south-west. In these promontories it was easy to foresee that expansion would take place along the lines indicated by certain roads. It is for this reason that the Government of Bengal made the proposal that the Trust should have power membership of the Trust was fixed at eleven to project roads to the outskirts of Calcutta. Part of the members being nominated by Gor-It was seen that strips of land lying along or ernment and others elected by local bodies in the neighbourhood of these roads should be whose interests are most nearly concerned.

The Calcutta Improvement Trust was insti- acquired by or for the Trust and would be tuted by Government in January, 1912, the dealt with by them as model areas. In the preamble of the Act by which it is founded remaining part of the extension, according to the Government's plan, the Trust would have dient to make provision for the improvement in oppopulatory rights over the land, but they and expension of Calcutta by opening up conand by this means would recure that all homes

Legislation.

pansion. Of these sums Rs. 236 lakis were to be recovered by recognizent. 50 lakis to be recovered by recoupment, 50 lakes to be recovered by recoupment, and the were granted from Imperial revenues, and the remainder was left to be raised by loans. sanction of the Secretary of State was obtained for the proposals generally on the understand. ing that the scheme of taxation would be for log that the scheme of taxation would be acrown years. The Legislative enactment, while based on these calculations, does not actually refer to any limit of expenditure. But the Act provides a special system of taxation for the service of the loans, amounting to Its. 455 lakhs, involved in the scheme. For this service an arrural revenue of 10°05 lakhs was required and to this have to be added 1°25 lakhs for actions arrows and continuencies, brigging working expenses and contingencies, bringing the total up to 20 90 lakhs. To provide this revenue the Act provides for the levy of special taxes as follows:

A two per cent, stamp duty on the value of all immoveable property transferred by sale, gift or reversion of mortgage;

A terminal tax of one anna on every passenger by rall or steamer arriving in the city of Calcutta; this is not to be levied on passengers from within a radius of 30 miles of Calcutta;

customs and excise duty, not exceeding two annas per bale of 400 lbs., on raw jute; two per cent. consolidated Corporation rate; and

An annual Government grant of a lakh and a half.

The Act provides for the appointment of a whole time chairman of the trustees and the ernment and others elected by local bodies

The following are the present Board of Trus- | first duty set by the Trust to their chief engitees:-The Hon'ble Mr. C. H. Bompas, I.C.S., Chairman, The Hon'ble Mr. S.W. Goode, I.C.S., Ag. Chairman of the Calcutta Municipal Corporation (ex-officio); The Hon'ble Raja Reshee Case Law, C.L.E., elected by the Corporation; The Hon'ble Rai Radha Charan Pal, Bahadur, The Hon'ble Hal Radha Charan Pal, Bahadur, elected by the Ward Commissioners; Dr. Charles Banks, elected by the Commissioners appointed under Sec. 8 (2) of the Calcutta Municipal Act, 1890; Mr. W. K. Dods, elected by the Bengal Chamber of Commerce; The Hon'ble Rai Sitanth Rai Bahadur, elected by the Bengal National Chamber of Commerce; Rif R. N. Mookerjee, K.O.LE.; Sir F. H. Stewart, Kt., O.LE.; The Hon, Mr. A. Birkmyre and Rai Annada Prosad Sarkar, Bahadu, appointed by the Bengal Government.

The Board and their Work.

It was impossible to settle in advance the exact projects to be undertaken by the Trust. All details of these were, therefore, left to be worked out by the Trust after its constitution, Government exercising control by having all the individual schemes sent to them for approval before execution. The Trust did not enter on a virgin field. The Municipal Corporation had previously dealt in some measure with the problems they were appointed to solve and the Trust started work with the initial benefit of this previous labour. Thus, the Corporation had allered many roads and this work was useful to the Trust, though in some

cases modifications were necessary.

The work upon which the Trust are now definitely embarked may be divided into three

classes as follows:

Many parts of Calcutta are over-crowded with hulldings and ill-provided with roads. These areas are to be re-arranged both on the ground of sanitation and for

convenience of traffic; Population will continue to throng into the overcrowded parts unless it can live on the outskirts and at the same time have speedy access to the business centres of the town. Quick traffic can only take place along broad roads. These are al-most wanting in Calcutta. The construc-tion of broad roads will at the same time ventilate the overcrowded parts of the town and it has been recognised from the outset that the construction of broad ronds running both north and south and east and west will thus secure a double

object;
There is the question of providing for the population displaced by improvements, and still more important of providing for the natural growth of population by laying-out roads and building sites on sparrely populated areas on the out-skirts of the town. When persons of the working class are displaced or likely to be displaced the Trust can build dwellings for them if private enterprise does not

undertake the work.

Engincer's Survey.

of providing improved traffic facilities for busiess in the auburban wards or in the ad-Calcutta and its suburbs must be dealt with facent suburban municipalities. The Board as a single problem and by a single mind. The do not anticipate, nor do they desire, that the

neer was, therefore, to prepare a scheme of main roads of primary importance. The chief engineer Mr. E. P. Richards, M.10.E. &c., devoted his whole attention to this task and his report was issued early in 1914. Mr. Richards' report, which was accompanied by maps and numerous photographic illustrations, made a volume of 400 closely printed foolscap pages. He found Calcutta "a city which is in a very much more than ordinary bad way", and early discovered the serious fact that "the Calcutta Improvement Act of 1911 was almost useless for the great task set to the Trust". The Trust was not constituted under a Town Planning Act but only under a local Housing Act, so that "Calcutta and her suburbs cannot possibly be jointly planned or controlled, or be moderately improved, under the existing improvement Act."
Mr. Richards' report deals with the general conditions and needs of the city and the general ral policy of reform, with the general legislative and financial aspects and with the main pro-gramme of work. He discusses the Calcutta of to-day, showing the chief faults as to which improvements are required. A comparison is made between Calcutts and other cities, by way of illustrating Calcutta needs, and in this manner finance, roads and streets per square mile, road and street widths, percentage of open spaces, tramway mileage per head of population, the status of the city as a port, and so on, are fully dealt with. An important chapter deals with the Calcutta slums and makes recommendations as to what should be done in regard to them. Another chapter discusses the general problem of city improve-ment and another is devoted to suburban planning and developments.

Improvement Schemes.

The Engineer submitted early in 1915 an interesting report on the widening of Howrali Bridge. Meanwhile, the Board undertook certain improvement schemes which would not be interfered with by any larger schemes adopted later. The Board also embarked on accommodation for persons likely to be dis-placed by the improved schemes under pre-paration. The buildings designed resemble those erected by the Bombay Improvement Trust. The scheme was sanctioned by Government in August, 1912, but its execution has proved more expensive than was anticipated, mainly owing to the rice in the price of building materials. The following paragraph from the Calcutta Improvement Trust's first annual report shows the standard accord-ing to which they regard their re-housing plans :-

"The housing problem in Calcutta is of supreme importance; the figures of the last census show that much of the improvement in the health of Calcutta is only apparent; the sanitary measures of the Corporation result in the removal of bustees and the population which occupied the busters does not find healthier accommodation in the same The Trust perceived at once that the problem locality but moves on to even more insanitary

chawl should become the usual dwelling for: the roor of Calcutta, but it may be suitable to some classes of its heterogeneous popula-tion, and especially to those who come here for work, leaving their families behind. It Is very difficult to see what other class of building can be creeted by the capitalist where land costs more than Rs. 600 a cottah. On really cheap land it is possible that good results could be obtained by arranging for the contraction of sanitary bustees, the Board metely laying-out and draining the site and controlling the class of hut creeted." The Board understable the contraction of the took the erection of three blocks of buildings as an experiment. The cost of the land worked out at Re. 832 a cottah. It is recognized in England that the working classes cannot profitably be housed on land costing more than £300 an be housed on their costing more than 2500 an arre, or Bs. 75 a cottab. There will, therefore, be a lors on the Calcutta experiment, as was anticipated by the Board from the outset. "It appears, therefore," say the Trustees in their 1914 report, "that the buildings would show a fair return of capital if the in the two upper storeys were let out at Rs. 6 a menth, those on the ground floor at Rs. 5 a month and the shops at Rs. 10."

The Board believed the buildings to be much thraper than anything of the kind hitherto erected in Coleutia, and applications received those that "there would apparently be no dimenity in filling a building with tenants of the Bengali middle class, if the whole building or the two upper storeys of each block were exclusively reserved for their Brand, however, in their 1914-15 report, stated that they "consider that it is most important to ascertain what rent can be pold and what accommodation is required by the artisan and labouring classes. They have, therefore, decided to let the rooms at lower rates to artisans and labourers and if the buildings once become popular, it will doubtless be possible to raise the

A Fenr's come Alerience on these lines showed that then the Alerience on these lines showed that that therebe Alerience on these times such they disast see buildings were popular, though they rent and not become fully occupied, and the rent recovered gave a return of 8 per cent, on the capital expenditure. The Trust in their next report said that one reason why the duellings nero not fully occupied was probably the fact that in the waren for cheap land the Trust placed the hulldings too near the boundary of the Hunicipal Corporation area. poorer classes who are willing to live so far from the entre of Cabutta guerally prefer to cross the boundary into Maniktala Municipolity, which is only a hundred yards away and ohere rent and rates are less, though the aunitary conditions are deplorable. The Trust End grand to believe that similar buildings near the centre of Calcutta would let at more remunerative rates. Meanwhile it was decided to admit tenants of other than the working citives and this led to an immediate inrush of telfy clerks and sintents.

The approximate area of land taken possession in the City proper, would be of by the Trust up to flet March 1917 was Gross Nett 259.11 acres, out of 503.62 acres notified for Sequential up out of this, 25.55 acres were The estimates for the roads now true at credit the highest 6.64 acres very the estimates for the roads now true at credit the highest 6.64 acres very 1.1.05 cannount to meres leaved and 40.11 acres 1-t temporarily and the telepre of 227,03 norms was account.

Thirteen improvement schemes were santtioned by Government up to the end of 1915-16. None was added last year. The estimated cost of these schemes is-

.. 207 lakhs. Land-gross 46 nett Works 53 . .

and they provide for 8-8 miles of new roads and 8.3 miles of widened roads. Work at first proceeded satisfactorily, but it then received a severe check as a result of legal proceedings, which resulted in a decision by the Appellate Ecnels of the High Court that the law does not authoric the Toauthorize the Trust, when executing a street; scheme, to acquire any land outside the line of the roads, whether for the purpose of laying out the land along the roads or for the purpose of recouping part of the cost of executing by selling at an enhanced price the land abuttar on and improved by the road. In all the schemes already sanctioned by Government provision was made for the acquisition of land on each side of the new roads for the double purpose of securing a proper lay out and of reducing the net cost of the schemes by recom-ment arising out of the resale of the land. The effect of the judgment was that Government could sanction none of the schemes prepared by the Trust A new Act passed in 1916 give the Trust power to lay down lines of projected streets and prohibit the erection of buildings within them.

The plan of the main roads for the City of Calcutta proper, i.e., the area within Circular Road, may now be considered assettled, although all the Improvement Schemes and Alignment under which they will be constructed have not yet received the sanction of Government. give access from the growing suburbs in the south-east of the town, Parkstreet, the call diagonal radial of Calcutta, will be widered to \$4 feet, and further north, an additional approach to the centre of the town will be affor ed by a new diagonal road. As regards in Suburban Area, all the main east and was roads are continued beyond Circular roads. so as to give access to the suburbs, and an enter Circular-road will eventually be formed there. the southern suburbs of Calcutta.

It has been impossible to make any rewith the preparation of a scheme of male for for the northern suburbs of Calcutta, that he to ray, for the area falling within Manifell. Cossipore-Chitpore, and Baranagore Marke falling, owing to the proposal to triag the drand Trunk Canal from Lastern Ikagal to Alexandra Manifella (1998). terminus within the limits of the Manifestal Municipality and to make a branch connect? with the Hooghly running through Couper Until this recom Chitpore and Buranagore. Until this re-is definitely adopted or abandoord all project for drainage, water-supply and rout impen-ment in those areas must be held in accoun-

It was estimated in the Joint Report of Itithat the cost of land required for the real-

.. Re. 7,00 Iskin 3,27 1401enry

.. Pe. 10,25 lake. (ippra Nett

BOMBAY IMPROVEMENT TRUST.

Bombay is an island twelve miles long, but | very narrow and containing only 22 square miles altogether, but in the city, occupying little more than half the island, there lives a population enumerated at 972,892 and actually totalling over a million. Bombay is, in point of population, the second city of the British Empire. Seventy-six per cent, of its million people live in one-roomed tenements. Imagine the terrible conditions of overcrowding and lack of sanitation which these facts imply and you have the reason why the severe onset of plague eighteen years ago led to the formation of the Improvement Trust, for the special purpose of ameliorating the sanitary condition of the city. Plague was imported into India from the Far East and was first discovered in Bombay in 1806. There was a great panic Bombay in 1890. There was a great pante among the population. Every bouse had its victims, most persons attacked died. There was a general flight of the population to the country districts. It is estimated that nearly half a million so fied. Grass grow in the principal streets. These circumstances directed the attention of the authorities, as nothing else could have done, to the problem of bringing the development and bousing arrangements of the city into line with modern requirements. of the city into line with modern requirements. It was at once recognised that the task was too great for the Municipality, and a special body, termed the Trustees for the Improvement of the City of Bombay, was appointed. It consists of 14 members, of whom four are clerted by the Municipality and one each by the Chamber of Commerce, the Millowners' Asso-clation and the Port Trust, and the balance by Government, Or sit nominated The Board is officio as officers of Government. presided over by a whole-time chairman (who has hitherto always been either a covenanted civilian or an officer of the Public Works Department) and he is also head of the executive. The present chairman and members of the Trust are as follow :-

Chairman-

1

Mr. J. P. Ott, C.S.L, LC.S.

Ez-officio Trusiecs-

Maj.-General W. C. Knight, c.s.l. c.s., D.s.c., A.D.c., General Officer Commanding Bombay District.

Mr. W. C. Shepherd, 1.0.8., 3.P., Collector of Bombay.

Mr. P. W. Monie, 1.0.8., J.P., Municipal Commissioner for the City of Bombay.

Elected by the Corporation-

Sir Bhalchondra Krishna Bhatawadekar, Kt., L.M., J.P.

The Hon Sir Dinsim Edulji Wacha, Kt., J.P.
The Hon ble Sir Ibrahim Rahimtoola,
Kt., O.I.E., J.P.

Mr. Cowasji Jehangir Readymoney, J. P.

Elected by the Chamber of Commerce-

Elected by the Port Truslees-Sir F. L. Sprott. Kt., J.P. Elected by the Millowners' Association— Sir Sassoon David, Bart., J.P.

Nominated by Government-

Mr. A. H. Whyte, J.P., P.W.D.

Major H. A. L. Hepper, R.E., J.P.

The Hon. Mr. Lalubhal Samaldas Mehta, C.I.E., J. P.

The specific duties of the Trust are to construct new and widen old streets, open out crowded localities, reclaim lands from the sea to provide room for expansion, and construct sanitary dwellings for the poor.

The Sanitary Problem.

Bombay city grew on haphazard lines, houses being added as population poured in with the growth of trade and without any regard to town planning or the sanitary requirements of a great town. The price of land was always comparatively high, owing to the small area of the island, sud while the builder had only one object in view, namely, to collect as many rent paying tenants as possible on the smallest possible piece of land, there were no propor restraints to compel him to observe the most ordinary rules of hygiene. The result was the crection of great houses, sometimes five and six storeys high, constituting mere nests of rooms. There was no adequate restriction as to the height of these chawls, or the provision of surrounding open space, so that the elementary rules as to the admission of light and air went unobserved and the house builder invariably erected abuilding extending right up to the margins of his site. Consequently, great houses accommodating from a few hundred to as many as four thousand tenants were built with no more than two or three feet between any two of them and with hundreds of rooms having no opening at all into the outer air.

The Trust has practically reconstructed large areas on modern sanitary lines, but the old municipal by-laws having unfortunately remained quite inadequate for the due control of private building operations by the Municipality, the Trust have spent millions sterling of public money in sweeping away abuses, while unserupulous landlords, still unchecked, added in the same old manner to the insanitary conditions of the place. Thus, the Trust acquire and destroy insanitary bouses on a certain area and lease the sites and permit new houses to be built on them subject to the reservation of a certain breadth of open ground round the edges of the site to provide for the necessary angle of light and air for the lower rooms of the new building But bordering on this area there will be old houses that were not acquired as part of the improvement scheme and the municipal by-laws have allowed the owners of these to increase their height by one or more storeys without regard to the fact that they were thus undeling the very work of providing for the admission of light and air upon which the Trust had just poured out money. The private

landlords have taken the fullest advantage of the loophole. The amendment of the Municipal the hoppings. The amendment of the similarity by-laws so us to cure such abuses has been under discussion by the Municipal Corporation for many years and improved by-laws have been prepared. They are still under consideration by the Municipal Committee.

Finance.

The work with which the Trust was charged was bound to prove unremuncrative, with the exception of reclamations from the sea, and at the out-et, therefore, certain Government and Municipal lands were vested in the Trust, and Municipal lands were vested in the Trust, forecast as Rs. 30 lakks against the correspon-the neutrice of which it enjoys, and the Trust, ding figure of Rs. 332 lakks estimated in 1916, at the outer received a contribution from an improvement of Rs. 43 lakks, or 12 per collmunicipal revenues not exceeding 2 per cent, on the rateable value of the property assessed on the faceatte said of the projects of the face the works are financed out of 4 per cent loans, which are guaranted by the Municipality and the Government, and the revenue of the Trust is used to meet interest and sinking fund charges, The Trust, proceeding or these lines, found itself, in 1010, at the end of its resources. itself, in 1910, at the end of its resources. When the Trust was constituted it was estimated that the neutron on the public land sected in it would represent a contribution of Rs. 95,00,000 (£640,000) from the ceneral farrayer. But in practice this was reduced to less than Rs. 43,00,000 (£256,660). The Trust found itself with unproduced resources estimated at only Rs. 16,00,000 (£106,660). The flovernment of India came to its assistance with a cash grant of half a cure of super-(£733,000), given out of a budget surplus, special legislation was carried through the lioming Legislative Council in 1913 to increase the advantage of the Trust from Provincial and Municipal appropriations, and legislative measures were initiated to enable the Trust to raise money by special local taxation in Boming. The cautious estimate of Its. 16,60,000 also proved to have been below the mark. In the years following 1010, when the estimate was made, there was an improvement in the Trust's revenue, so that in 1913, after the amendment of the financial cluster of the Act and the grant of 50 lakhs by the Governfornt of India, and in spite of important additions to the Trust's programme, the tri-nnial funnelal foregast showed that the margin for expansion had increased to Rs. 95 lakbs. Inasmuch as the whole of this sum was required for completion of the Eistern Avenue, it was still accessary that the Trust should be provided with further finis for direct exp neiture on improvement schemes. To this end a Bill was Introduced into the Bombay Legislative Counintroduced into the Bombay Leadattive Coun-col on 16th December, 1913, providing for the beyo of a surfax in stamp duty on conveyances of property in Bombay and for the payment of the nett proceeds to the Trust. The Muni-cipal Corporation, however, professed against the raising of the necessary funds at the expects of the property owners of Dombay and sugges-ted, as they and the Trust had already sugges-ted in 1911, that an expect date on bales of ted in 1911, that an export duty on below of ention expected from Bomby should be levied? instead. Hovernment apponded as the March. 1911. The sing of the Legisline Council that contibution it is a definite above of the Francis Bill would be field one replied conflicts, appearance of the Francis Rich Bill would be field one replied conflicts, appearance appearance for an example of the surrentees. The entire has not for each and the free legislic for the conflict of the first legislic for the fi

Meanwhile, the 1916 triennial financial forcast shows further important circumstantialim provement in the Trust's position, the result being to establish that after making full allowance for the worst probable effects of the war and full provision for all sanctioned schemes to the end of September, 1016, including the two Parel road schemes, which it had been supposed would exhaust the Trust's financial resource, the Trust have a margin of Es; 122 laks for expansion of their programme. The main point for notice is that the new forceast shows the total loss on the 16 schemes included in the 1913 this improvement being for the most part made up of small items in several schemes :

"The sallent features of the Trust's present sanctioned programme of 41 schemes may be summarised as follows:—Capital spent on requisition and works gradually rises from 669 lakhs at end of 1916-17 to 969 lakhs at end of 1914-15. Debt gradually rises from 568 lakhin 1916-17 to 788 lakhi in 1924-25. Annual interest and sinking fund charges thereon gradually rise from 25.70 laklis in 1910-17 to 35 75 in 1025-26. From 1959-60 they gradually fall at loans are faid off till they vanish in 1981-85. Permanent ground rents gradually rise from 11 Wolkhe in 1916-17 to 3733 lakhe in 1916-17. Nett annual revenue from estates rises from 2211 lakhe in 1916-1917 to 3123 lakhe in 1916-1917 to 3123 lakhe in 1956-57. From 1998-99 onwards the nett mer the gradually falls as scheduled lands revet in Government and the Municipality till when in 2020-30 none such remains with the Trust it teaches 2.11 lakes. Margin for expansion of programme, Rs. 122 lake.

The Trust, in November, 1915, carried a 7 commendation of the ir improvements Committee to ask their solicitors to draft an amendment to the Improvement Trust Act which would give the Barri powers, similar to those provided in in the English Act for the housing of the week ing classes, to acquire parts of houses, to a move obstructive houses, and to losy belief ment contributions from houseowners who ter filed by such Improvements, the sim of the amendment being to enable the Trust to with away "represented" for improvement !! the Municipal Corporation without the 2031 exp no of total demolition procedure. A dest from the collectors is still und r considuration to the Trust.

The following are some details of the Postamend the City of Bombay Improvement Act, which, as just mentioned, was proceed by it Provincial Levi-lature in Jan 1913. The East Company of the City object of the Bill was to simplify the figures arrangements between the Government it. Municipality and the Trust and risks the more favourable to both the local bedies. Use the old Art, as already nembered, the arene municipal contribution to the Trust vist & indefinite sum limited by a maximum of the rout, on the municipal assessments of the year. Under the Amended Act the townlight

use. Under the original Act, the Trust Lad of great arterial thoroughfares traversing the from 1950 cowards to pay to Government lidand from north to south. The latter underas interest on the schedule value of the Go-vernment and municipal lands vested in them. while Government and the Municipality were at liberty to resume any unleased, vested lands for public purposes without paying compensation, except in respect of capital spent by the Trust in improving them. Under the amended Act the Trust have no interest to pay, and Government and the Municipality must, on re-uming vested lands, pay the Trust their full market value. There are other mo-difications of the old arrangements, similarly making for the financial benefit of the Trust. The new Act makes the Municipality the reversioners of the Trust's assets and liabilities. Apart from finance, the new Act contains important new sections under which the Trust are empowered to co-operate with employers of labour for the housing of the working classes by constructing chawls for their employes and learing them to the employers at a rent calculated so as to yield to the Trust in the course of the 28 years of the lease the capital sum spent in the scheme, plus interest payable on the debentures by which the capital was raised, the chawls then recoming the property of the employers. The Trust are now corresponding with several millowners about schemes under these sections, and one set of chawls has been completed for the Spring Mills.

Plan of operations.

The work of the Trust, so far as it has gone or is planned, can be divided into two parts. The first concerned the immediate alleviation of the worst burdens of insanitation and the second consists of opening up new residential areas. The Trust began by attacking the most insanitary areas. Two broad roads, running due cast and west, were cut through the worst parts of the city, sweeping away a mass of insanitary property and admitting the healthy westerly breezes to the most crowded parts of it. These thoroughfares are known as Sandhurst-road and Princess-street. They are now practically completed, and the greater parts of them are already settled under the new conditions, with sites on both sides of them new conditions, with sites on both sides of them disposed of on long leaves and many new buildings built and occupied. Meanwhile, large areas of good building land, lying leik for want of development works, have been developed and brought on the market, sold at remunerative rates and largely built upon. Instances of this development are the Chaupati and Gomdevi estates, the land overhung by Malabar Hill, between it and the native city. These were cut up with fine new roads and are now nearly covered with modern suburban dwellings. Iwo of the most insanitary quarters in the midst of the city have been levelled to the ground and rebuilt in accordance with led to the ground and rebuilt in accordance with hygienic principles. Sanitary chawls have been built for about 20,000 persons. So much for the first phase of the Trust's labours.

The second phase, arising gradually out of the first and advancing along with its later stages, consists of the development of a new suburban area in the north of the Island, youd the present city, and the construction i

and the Municipality 3 per cent. per annum takings were originally known as the eastern and western avenue schemes, but the cost of land is ri-ing so rapidly throughout the city, and the expense of new works is accordingly growing so heavy, that the western avenue has had practically to be abandoned and modified improvements of existing highways from south to north, on the western side of the city, substituted for it. The eastern avenue will run from the back of Crawford Market, the northernmost limit of the modern commercial city, directly north to the northern end of Suparibach-road, near the western entrance road to old Government House, Partl, and have a width varying from 100 to 120 feet. It is divided into three sections. The first, starting from Crawford Market and reaching to Pydhonie, is already in the hands of the engineers for execution. The second, for which Parel-road requires widening, has been sanc-tioned by Government and the Improvement Trust are now acquiring the necessary properties for carrying it out,

Beyond the northern end of the Eastern Avenue, the north-east portion of the Island, extending some three miles, consisted until recently of swampy rice lands, interspersed with bits of juncio and small hills and a few building areas. The Trust have acquired the whole area. A broad thoroughfare has been laid through the centre of it, with other roads connecting the outlying parts with the central road and with the railway stations. Some of the hills have been levelled and the material from them used to fill the low-lying parts of the estate. Development some time ago reached the stage of readiness for building in the half of the scheme nearest the city, and the Trust are now devoting their attention to facilitating private enterprise in this direction. Some building has already been commenced. The suburbs will probably become largely residential for people whose daily pursuits take them to the southern city, but its chief use will be for those whose avocations employ them in the large new port extension which the Port Trust are carrying out at the north of the present port and where the new cotton green and grain yards will be situat-The Port Trust have reclaimed 590 acres of land from the north of the harbour, at a cost of £1,833,333, and the whole of the export trade of the port will be concentrated in this new area and in that adjoining it, at Mazagaon and Senti.

Statistics.

The following are some statistical details of the progress of the Trust's operations. the end of 1916-17 the Board had raised Rs. 508 lakhs (face value, nett receipts being Rs. 560 lakha) by loans and their total capital receipts including 50 lakhs received from the Government of India in 1911 and 4 lakhs from the Government of Bombay in 1913, amounted to Rs. 675 lakhs, out of which they had spent 42 lakhs on Improvement of Government and Municipal lands temporarily vested in them, Rs. 621 lakks on their own acquired estates and 3 lakks on their office building, The following table, taken from the Trust's official report shows the extent of the development

5.172

Rs. 556'9 lakha

Developed Land.		q. yards in housands
Permanently leased	• •	1,010
Chawl sites	**	80
Yet to be permanently lea	sed	. 258
Remainder roads, open a	spaces,	535
Total	••	1,892
Rent of permanently leased area Area of undoveloped land in thousands of	. Rs 1	1·5 laklıs

eduzie Laude ...

Cost of acquisition

those in his own.

The disposal of plots on the Trust's newly developed estates is now progressing at a favourable rate. Practice shows that for A further development of method in dealument obvious reasons the disposal of plots proceeds with insanitary areas is now in prospect. It most slowly when an estate first becomes has already been recognised that estimate available for leasing to the public. When the long the problem is a summed of the public when the long the problem is a summed of the proportions the presented areas remaining to be dealt with remaining sites pass off without difficulty, lowing to the constantly increasing cost of Both in number and in value the plots disposed of property and work, and could benefit out disposed of in the two previous years together. Insanitary conditions are always going for Roth in number and in value the plots disposed of during the year 1916-17 exceeded those disposed of in the two previous years together. The number was again a record and in point of bad to worse with the extension of builds value far exceeded that of any previous year, operations, under the lax Municipal by-lat The total area fell below that of 1915-16 and already referred to. It is recognised to 1915-14 but was well above the average. The what is wanted is some general scheme in the farmer was the second section. value far exceeded that of any previous year. The total area fell below that of 1915-16 and 1912-14 but was well above the average. The plots in Gamdevi have all been based and a successful start has been made on the Dadar successful start has been made on the Dadar city and some means of putting an immedia Matunga estate. This improved demand for check to the spread of further insanitary evithe plots on the Trust's residential estates is a through the weakness of the by-laws, csp very satisfactory and encouraging feature. It very satisfactory and encouraging feature. It cially in relation to the lighting and venil seems to indicate that the public are at least tion of one-roomed tenements. The Trabeginning to appreciate the advantages of the officers have devoted much time to strip. Trust's method of laying out their estates with this question and the chairman some a prescribed margin of land to be kept permamently free of building on each plot, in such a way that each lessee gets the benefit of the open spaces in his neighbour's plot as well as those in his own.

By the beginning of 1916-17 completion certificates had been issued for 392 buildings on the Trust Estate, exclusive of Police chawls and Trust chawls. In 1916-17 certificates were granted for 34 new buildings.

The Working Classes.

The average total population in the Trust chawls and semi-permanent camps was 18,247 in 1910-17. The total rents of 4,732 rooms in the Trust chawls including the 341 rooms of the Trust chawls including the 341 rooms of the new Chinch Bunder-chawls at the maximum to Bishment of co-partnership housing societies the new Chinch Bunder-chawls at the maximum the Board's Estate and the Board regressive works out to Rs. 2,51,023 per annum. The maximum for 1916-17 was Rs. 2,50,416 encouragement at their hands, especially to 199-41 per cent. of the total recoverable Rs. 1 connection with the disposal of land in the 2,40,635 of the year plus previous arrears of Garden Suburb in the north of Bombs Rs. 2,234. The difference between Rs. 2,51,023 island.

operations carried out by the Trust up to the and Rs. 2,49,635, riz., Rs. 1,385 is due to end of the official year 1010-17:— vacancies. The percentage of ontgoings to gross chawl revenue is found to be approximately 32.86% (against 34.07% in the preceding year) this proportion being higher than in the case of private chawls mainly because private owners spend far less than the Board on the sanitation of their chawls. On the basis of the maximum annual rent of Rs. 2,51,023 and outgoings at 32.86% the net annual income of permanent chawls works out to Rs. 1,63,537 or 396% on the cost of chawls (including value of land) amounting to Rs. 42,56,630 on which the Board pay annual interest and sinking fund charges at 4 61% amounting to Rs. 1,90,200 which is Rs. 27,693 more than the net annual income as worked out above. The average population of which was 14:912 during 1916-17.

> The death rate in the Trust's permanent chawls has always been considerably below the general death rate in the vicinity. The smallest one room tenement on the Trust Estate li large enough for a family of five.

A New Method.

A further development of method in dealing insanitary conditions are always going in improvement that can be applied all over the ago propounded a scheme by which all in adequately lighted and ventilated rooms h Bombay might be closed gradually and bouse owners required, with some assistance for public funds, to reconstruct their bones, & that all rooms in them used for dwellings might have sufficient light and air. The schement, who approprieted a manufacture of Government, who appointed a representative committee to conside the new plan. This committee submitted are port generally approving the suggestions in the Corporation to whom the report was ser by Government for consideration have not yellow the committee of the consideration have not yellow the committee of the consideration of the consideration have not yellow the consideration of th come to any decision about it.

During the past two years there has been an important movement towards the establishment of the control of the

		-

as follows during the l

T*	me (t	ie inst	accad	0:	
Year.		•		Income.	
				Rs	
1907-08	• •	• •		1,09,57,142	
1008-09	• •	• •	••	1,20,16,630	
1909-10	• •	***		1,18,36,518	
1010-11		• •		1,28,26,171	
1011-12				1,35,90,408	
1912-13		• •		1,42,46,317	
1913-14				1,51,28,435	
1014-15			**		
1915-16			••	1,44,50,349	
1916-17		* *	• •	1,59,35,450	
T1	•••	• •	* a	1,57,23,432	

The Port has been seriously affected by the war, as owing to the position of Calcutta, there has been practically no. military traffic to be handled and the volume of imported goods and of coal exported has shrunk very largely owing to the shortage of tonnage, accentuated in respect of the imports by the restrictions imported on the export of certain articles, particularly iron and steel, from the United Kingdom. The following figures illustrate this :-

1913-14. 1914-15. Tons. Tons. Jetty imports 1.186,797 Docks Imports ... 917,078 613,876 700,133 Docks Exports General 1,231,589 920,650

Docks Exports Coal 3,017,180 2,633,805 1913-16. 1916-17. Tons. Tons. Jetty Imports 788, 431 696,010 Docks Imports 570,997 444,210 Docks Exports General 1,034,985 1,185,159

Docks Exports Coal 1,610,645 1,789,482 In respect of income, there has been no corresponding shrinkage, the figures being as follows :-

1010 11			Rs.
1913-14	**	 	1,51,28,435
1914-15	€	 	1,44,50,349
1915-16		 	1,50,35,456
1016-17		 	1,57,23,432

But the development which might otherwise have been expected has not occurred and the actual results have been attained only by the imposition of special war surcharges, which were brought into effect from the 1st February, 1915, in most cases, and in respect of coal from 15, April, 1916. The loss of vessels by submarine and the resort to the Capo route, occupying a much longer period, brought about a further shrinkage in trade during the early month of 1917 and the war surcharges above referred to have had to be increased with effect from 1st August 1917.

Various considerable improvements for the expansion of the port have in late years been carried out to provide for the growth of trade.

The Port Commissioners' income has expanded | Hughll with a view to their navigation by night, Considerable progress has been made with a new acheme for the extension of the docks. A special committee was appointed in England in 1913, to visit and inspect British and Continental ports with a view to advising the Commissioner in the light of the latest experience. perience there on various points connected with new works.

But these undertakings only belong to the outskirts of the main problem. The remedial measures of the Port Trust have proved beneficial, but they are insufficient to meet the everincreasing requirements of trade. The question of the congestion at the Calcutta lettles and the absence of adequate transport facilities for the present volume of been engaging the attention of of trade. Government some considerable past. There has been a very great expansion of the trace of the port and a large increase in the number time and tonnage of vessels entering it, and the lack of sufficient accommodation has resulted in serious delays to ressels and consequent loss, chiefly arising from the inadequacy of facilities for the discharge of cargo at the jettics.

The Government of Bengal, in December 1918, appointed a Committee to investigate important questions represented the problem of the future development of the port. The Committee consisted of the Hea-sir William Duke, Chairman; Sir Henry But, the Hon. Mr. A. M. Monteath, the Hon. Mr. J. C. Shorrock, the Hon, Raja Hrishikesh Leb. Mr. A. G. Lyster and W. H. Wown, Mr. A. G. Lyster, and Mr. H. F. Howard, members and Mr. R. N. Reid, I.C.S., Secretar, The Committee was empowered to-

(1) examine the existing traffic and port facilities in Calcutta and its immediate neighbourhood;

(2) investigate the present and future require ments of the trade of Calcutta, and

(3) determine the extent to which the various transport agencies shall provide ner-works and other facilities in order that these requirements may be fally mot for as long a period as it is reasonable to prepare a forecast.

The Bengal Government, in an explanatory announcement, agreed "that the subject for consideration is one of wider range than an enquiry into the facilities afforded to the import trade at the jetties, and that it concerns rather the question whether proper facilities of all kinds are being provided to enable the port and rallway authorities of all rallway authorities to deal promptly and adequately with the rapidly-expanding trade of Calcutta in accordance with a well-defined and carefully-thought-out policy. There are reversi projects for improving transport facilities and the rallway and other approaches to the port, which have been prepared at various times and which which have been prepared at various times awhich are now under consideration, such as the provision of railway bridge over the Huchlat Panihati, the expansion of the docks, the provision of new coaling berths on the Howthside of the Hughli, the Grand Trunk Canal Project, the removal of the Hatkhola jute mat and additions to the ideals. An important project recently undertaken was one for the lighting of the lower reaches of the mous expenditure and they should, it is rightly

held, be examined and co-ordinated by 0 1 committee whose duty it would be to make an exhaustive enquiry into the requirements of the trade of the port and the means by which these requirements could be met."

The Committee's report was published in March, 1914. It approved of the new scheme Already undertaken by the Port Commissioners for the extension of the Docks, gaying "we are of opinion that the general layout of the scheme is suitable, and that it will ensure an ample margin for the expansion of trade which is likely to take place in any period that can reasonably be foreseen." The Committee reasonably be foreseen." The Committee duct of the Port affairs is open is that the inception of these schemes was delayed until the great increase of trade during the last two years has showed only too conclusively how urgently they were required."

At the same time, the Committee recognised the eminent services rendered to the Port by the late Sir Frederick Dumayne, during his tenure of office as Vice-Chairman of the Port Commissioners, stating that the schemes or extension recommended were initiated under his anspices and that their inception is now possible is due to his forceight and to his grasp of the situation.

The Committee considered that the future expansion of the seaborne trade of Calcutta should take place in the neighbourhood of the docks. Their principal conclusions, in addition to their approval of the dock extension scheme, may be summarised as follows. A standing advisory Committee should be appointed in reference to the railway approaches and lay-out of the siding accommodation for the new dock system the Committee to consist of the traffic officers of the Port Trust and of the railways concerned. It would be unwise to incur a large outlay in developing the present lettics, but steps should be taken to mitigate the existing defects in regard to them without undue expenditure on schemes that will not be permanently useful. tured with a view to consthe whole question of the improvement of the taken as soon as possible.

river Hughli should be thoroughly investigated and decided on at an early date. The present for the proposed new bridge, which should be wide enough to allow of three streams of traffic in each direction, in addition to the trains, and should carry greatly widened footways. The Improvement Trust should consider the whole question of road communication in connection with the prospective development scheme of the Port Commissioners. The opening of a second railway bridge over the Hughli will be required cight years hence. The Committee recommended various measures to enable the revenues of the Port Trust to meet the charges on the large capital works contemplated.

At the time of the outbreak of war, the Commissioners had in hand large development schemes which had been prepared as the out-come of the report of the Committee. But the execution of the schemes, so far as they were in hand in August 1914, has been seriously delayed and the commencement of the larger portions of them, including the construction of a new dock to be entitled King George's Dock, has been delayed both on account of the impossibility of obtaining materials and the financial restrictions laid down by the Government of India.

As regards the new Dock system, progress has been confined to the preparation of a complete scheme for the lock entrance, the details of which were prepared by the Commissioners' whilet were prepared by the Commissioners Chilef Engineer, Mr. John Scott, and were then referred to a small Committee in London consisting of Sir John Wolfe Barry and Mr. Cartwright Reid, whose report on the proposals has been received and considered. The final plans are now being matured in general accordance with the commission of these Constitutions. with the recommendations of these Consultantia

The construction of a new opening bridge across the Hooghly has also been deferred on fluancial grounds, but the plans are being ma-tured with a view to construction being under-

BOMBAY.

The Board of Frustees of the Port of Bombay | is constituted of 17 members, as follows:-

Appointed by Government .- Mr. G. W. Hatch, I. C. S. (Chairman), Mr. Mahomedbhoy Currimbhoy Ebrahlm (Messrs. Currimbhoy Ebrahlm & Co.), Col. H. A. L. Hepper, n.E. (Agent, G. I. P. By.), Mr. R. F. L. Whitty, I.O.S. (Collector of Customs, Bombay), the Hon'ble Mr. Purshotatamdas Thakurdas (Messrs. Narandas, Rajaram & Co.), Mr. B. Woolcombe (Agent, B. B. C. I. Ry.), Mr. P. W. Monle, I.O.S. (Municipal Commissioner, Bombay), Brigdr-General W. C. Knight, C.R., C.S.I., D.S.O., A.D.O. (Milliary Officer serving with Bombay Brigade), the Hon. Mr. Phiroze C. Schina (Sun Ilfe Assurance Co., of Canada), Capt N. F. J. Wilson, C.M.G., E.M. (Director of the Royal Indian Marine.) I. C. S. (Chairman), Mr. Mahomedbhoy Currim-

Elected by the Chamber of Commerce,-Mr. A. H. Froom (P. & O. S. N. Co.), the Hon'ble

Mr. T. W. Birkett (Messrs. Rillick, Nixon & Co.), Mr. Nigel F. Paton (Messrs. W. & A. Graham & Co.), Mr.J. S. Wardlaw Mino (Turner, Morrison & Co.) and the Hon. Mr. M. N. Hogg (Forbes, Forbes, Campbell & Co.)

Elected by the Natire Piece Goods Merchant's Association.—Mr. Dovidas Madhowil Thakersey (Messrs. Madhowii Thakersoy & Co.).

Elected by the Millouners' Association .- Sir Vithaldas D. Thackersey, Kt. (Messrs. Thakersey

Moolji & Co.). The following are the principal officers of the

Secretary.-Mr. H. E. Hart (on leave).

Chief Accountant (Acting Secretary),-Mr. J.

Acting Chief Accountant,-Mr. W. R. Sharpe,

Engineers.—Messis. P. G. Messent, C.L.E., M. INST. C.E. (Chief Engineer), Mr. A. C. W. Fosbery, M. INST. C. E. (Deputy Chief Engineer), L. H. Savile, A. M. INST. C.E. (Deputy Chief Engineer, New Docks Works).

Port Officer.-Captain C. S. Hickman, D.S.O., R.I.M.

Docks Manager, -- Major J. A. Cherry.

The revenue of the Trust in 1916-17 amounted to Rs. 1, 75,03,759. The expenditure amount to Rs. 1,56,19,014 including a sum of Rs. The expenditure amounted lakins which the Trustees decided to get aside as provision for the heavy depreciation of Fund investments in Government and other public Securities brought about by the War. The net surplus on the year's working was Rs. 18,84,745. The excess of actual revenue collections over estimates was mainly due to enhanced Dock receipts owing to increased activity in the export trade of the Port. On capital account the expenditure during the year aggregated its. 36,62,106 of which Rs. 30,91,169 was spent upon new large Works Alexandra Wet Dock & Hughes Dry Dock and the Mazgaon Sewri extenand reciamation, including the Port Trust Railway. The total debt of the Trust at the end of the year amounted to Rs. 15,30,65,747.

The trade of the Port of Bombay during the last official year aggregated 2011 crores in value, an increase compared with the previous year of about Rs. 411 crores (exclusive of Government transactions) or approximately 30 per cent.

The number of steam and square rigged essels which entered the docks or were vessels which berthed at the harbour walls and paid dues, excluding those which remained for unloading and loading in the harbour stream during recent years, including last year, is shown by the following statement :-

4 . a . i o ii o 11 B r			-	
Year.		3	umber.	Toppage.
1906-07			1476	2,600,406
1907-08			1477	2,678,845
1908-09			3474	2,633,303
1909-10	• •		1611	2,747,770
1910-11	•		1580	2,866,623
1911-12			1519	2.767,918
1012-13			1566	2,026,506
1913-14			1579	8,135,697
1914-15	• •	٠	1680	4,417,035
1915-16			1794	3,939,721
1916-17		4.4	2112	5,031,572

Bombay Port Extension.

The Bombay Port Trust have partially completed important new development schemes, which will add greatly to the facilities of the port. Foremost amongst these works comes the Alexandra Dock, the equipment of which will have no superior in the world.

The starting point of the modern port of Bombay was the year 1862, when the Liphin-stone Land and Press Company, which had already done useful development work, entered into a contract with Government to provide a to provide for more expeditious handling of

hundred acres for the terminus of the Great Indian Penirsula Railway, receiving in return the right to reclaim from the sea for its own advantage two hundred and fifty acres fronting the properties it had already acquired. The Company brought its estate into bearing with rare enterprise.

Doubts were felt subsequently of the wisdom of conferring upon a private corporation such an enormous monopoly as the control of the harbour front. These were resolved in 1808 by the decision to buy out the company and vest its properties in a public trust. The cetate passed into the possession of the Government in 1869, the purchase price being approximately two millions sterling, and after light meanered by the description. being managed by a department of Govern ment in the interregnum, the property passed to the newly-constituted Port Trust in June,

Government purchased in 1870, on behalf of the Trust, the private foreshore owners rights, at a cost of Rs. 75 lakhs, and at the same time reconstituted the Trust on a basis on which it has worked exceedingly well until the present day. The late King Emperor Edward VII, during his visit to Bombay in 1875, laid the foundation stone of the first large dock, which has since been known as Prince's Dock. This was opened in 1880, and thenceforward the financial difficulties hitherto experienced by the Port Trust dis-appeared. The construction of the Victoria Dock followed and recent years have provided an unbroken succession of surplus receipts into the treasury of the Port. Out of these profits charges on trade have been reduced wherever they pressed and the inancial posi-tion of the Trust has greatly been strengthened by the building up of a large revenue, by the institution of sinking funds for the repayment of the whole of the existing debt and by libers! appropriations to depreciation accounts.

The trade of the port rapidly outgrew the accommodation provided at Prince's and Victoria Docks. The developments now in progress are the result and are estimated to provide for the requirements of the Port for another 20 years, or longer. The new schemes may be divided into four heads:

(a) The construction of the Alexandra Wel Dock and Hughes Dry Dock, of which His Majesty The King Emperor laid the foundation stone during his visit to Bombay as Prince of Wales in 1905. His Excellency the Vicerof, with Her Excellency Lady Hardinge, performed the opening ceremony in March, 1914.

(b) The reclamation for the development of Port facilities of 583 acres, with a what frontage 21 miles in length—an addition of some 41 per cent. to the area of the city-at Mazagaon and Sewri, beyond the present Docks at the extreme north of the harbour. The masonry walling round the reclamation and the filling health of the second the reclamation and the filling behind the walls was entirely com-pleted during 1915-16 and good progress has been made with surfacing this large area.

(c) The building of a new railway leading from the main lines of the G. I. P. and B. B. a. C. I., outside the city, to the Docks, in order heavy railborne traffic. Part of the new Port Trust Railway was opened for troffic on 1st January, 1915, and the main system was practically completed in the next year.

(d) The construction of a complete bulk oll installation at Sewrl, at the north of the docks, with a deep-water pler.

The total estimated cost of the new dock and its equipment is Rs. 6,15,05,469 or, say, 24,100,205; cost of the Port Trust Railway over 123 lakins (£520,000); of the bulk of installation, 222 lakins (£147,500); and of the reclamation and contingent works, Rs. 388 lakhs, or, say, £2,580,060.

The dock is oblong in shape, with two bays at the north end. The total area of the wet basin is 40.52 acres, the length of quays, including the harbour wall, nearly three miles. There are 17 berths 500 ft. in length. These berths are equipped with hydraulic cranes and transit shed accommodation varying from 3-storeyed sheds 400 ft. long by 120 ft. wide, to single storeyed sheds 400 ft. long by 100 ft. wide. Railway sidings run between the quays and the sheds, also behind the sheds. On the harbour wall there is a quay 3,000 ft. long equipped with hydraulic cranes and transit The north end of this quay is intended sheds. The north end or this qua, a for a trooping berth. Hydraulic power is used for working the cranes, dock gates, machinery, transit shed lifts, capstans, etc. The dock entrance is through a lock on the south-west, parallel to which runs the new dry dock, a thousand feet long, a hundred feet wide, and with a sill thirty-three and a quarter feet below high water ordinary neap 'tides.

Outside the dock, beyord the entrance lock. runs the new mole, a continuation of the southwest wall, alongside which ocean steamers may embark and disembark their passengers direct from the shore, thus dispensing with the tiresome interposition of the tender. In the immediate vicinity of the landing pier, a Customs house, refreshment and waiting rooms, next and telegraph offices and every facility the traveller can require are under construction. A reclammifon of P acres incidental to the new dock works has been opened between the Dock and Ballard Pier. Sites thereon are to be let on 99-year lease, for "Offices and 1st class residences and, on certain conditions," large shops and hotels;"

The small Carnae basin, immediately north of the new dock and formerly used by country craft, has been filled in, so as to enable a canal to be cut from the northern extremity of Alexandra Dock, and extending to Victoria Dock. The width of the canal will be 80 ft. berths will be provided to permit ships to lie at the wharves on either bank. The waterway will enable ships to be taken into any part of the Dombay dock area through the Alexandra Dock entrance. This will probably lead to the closing of the old dock entrances,. with the result that ships will be saved much intricate handling and the Port Trust will be relieved of the necessity of expensive dredging operations.

The rallway sidings and series of transit sheds in the new dock were planned according to the most modern principles of dock manage-

The Sewri reclamation will chiefly be utilised for the accommodation of the export trade of cotton, grain and seeds, which form the largest item in the traffic of the port. The old cotton green—or market—is situated at Colaba, at the extreme southern end of the port and has long been greatly overcrowded, besides encumbering that end of the port. The new cotton green and godowns on the reclamation will cover about 166 acres, with 1821 acres available for future extension. The present greens and godowns at Colaba occupy 50 acres. Unloading sidings with accommodation 700 wagons are to be provided, in addition to ample running lines, as compared with sidings to hold 154 wagons at Colaba at present,

KARACHI.

The members of the Board of Trustees of the (Ewart Byrie & Co.), Mr. S. C. Woodward of Karachi are as follows:— Clement, Robson & Co.). Port of Karachi are as follows:-

· · · Chairman - Mr. H. C. Mules., C.S.I., M.V.O.

Appointed by Covernment.—The Hon'bo Mr. W. U. Nicholas (Vice-Chairman), (Anderson & Co.), Mr. F. S. Punnett (Chief Collector of Customs in Sind), Mr. D. B. Trevor (District Trafle Superintendent, Karacli Port, North-Western Railway), Major A. B. Merriman (General Staff Officer, Karacli Brigade), Mr. T. J. Stephen (The National Bank of India, Ltd.), Mr. Gidumai Lekhraj (representative Indian Merchant).

Elected by the Chamber of Commerce.—Mr. E. A. Pearson (Forbes, Forbes, Campbell & Co., Ltd.), Mr. P. H. Browne (Mackinnon, Mackenzi & Co.), on leave, Mr. J. I. Murray (acting),

Elected by the Municipality.—The Hon'ble Mr. Harchandrai Vishindas, B.A. LLB. (President, Rarachi Municipality).

The principal officers of the Trust are:-Port Officer .- Commander M. W. Farewell, C.I.E., R.L.M.

Secretary-(vacant) Mr. T. B. Downie (acting).

Chief Engineer .- Mr. W. H. Nellson, B.A., B.A.L., B.SO., M.I.C.E.

Superintendent, Export and Import .- Mr. 8. Downie (on deputation), Mr. A. A. L. Flynn (acting).

Revenue receipts (excluding expenditure from Plans and estimates were in 1915 submitted Port Tund Account), Rs. 82,70,823; Expendito and approved by Government for a West ture, Rs. 87,45,616; Deficit, Rs. 4,76,293 (met. Wharlage Scheme to provide 16 new berths, from opening balance); Reserve Fund, forty the cost being estimated at Rs. 5,48,77,99, the cost being estimates were in 1915 submitted. lakhs (face value).

The revenue receipts in 1914-15 were Ra

1,957,467; tons against 3,070 with a tonnage of construction of a protecting bank as the sea face 1,933,154; tons in 1914-15. This is exclusive of the new wharf and of a clay bund along the of vessels put back and fishing boats. The west side of the area to be reclaimed were connumber of steamers which entered the port was pieted last year. Government also sanctioned 112 available 1859 in the available of the area to be replained were connumber of steamers which entered the port was

Imports landed during the year amounted to 330,970 tons against 697,938 in the previous year. Total shipments were 1,206,268 tons in

The close of the year 1912-13 marked the sactical completion of harbour and port development works, the result of which will be a new

The revenue receipts and expenditure of 1913-10. On the last day of the year Mr. G. R. Karachi Port for the year 1915-10 whereas Lyan, M.L.O.E., resigned his port as Chief Eaginneer to the Port Trust, at the age of 60 years.

though the Trust anticipate that these estimates "will have to be thoroughly revised." Some 23,49,714. The capita debt of the port, at the Rs. 17 lakes were spent on the scheme up to close of the last financial year, amounted to the end of 1015, and for the present it is Rs. 2,61,21,049. proposed to carry out a portion of the scheme The number of vessels entering the port only, viz., for 6 berths, at an estimated cost of in the year 1015-16 was 3,740 with a tomage of over Rs. 1,18,00,000. Much dredging and the or vessels put back and fishing boats. The number of steamers which entered the port was pleted last year. Government also sanctioned 12 against 852 in the previous year, The last year and estimates for a Lower tonnage of steamers entering the port was 1,811,833 compared with 1,823,937 in the previous year.

Imports landed during the year amounted to 330,979 tons against 697,938 in the previous year. Total shipments were 1,256,268 tons in 1914-15.

The class of the real vessels was 1,256,268 tons in 1914-15.

The class of the steamer was 1,256,268 tons in 1914-15.

The class of the steamer was 1,256,268 tons in 1914-15.

The class of the steamer was 1,256,268 tons in 1914-15.

The class of the steamer was 1,256,268 tons in 1914-15. a berth at the lowest state of the fide. sanctioned draught for the Suez Canal is now 20 feet, but 32 feet are being worked up to and it is understood that this will not be the departure in the history of the Trust. But the extreme limit. Nothing was done in connection original scheme continued to pass through a process of expansion and these extensions of the works were practically finished by the end of some time.

MADRAS.

The following gentlemen are the Trustees of | ing from working expenses the interest on lame. the Port of Madras:-

Officials.—The Hon'ble Sir Francis J. E. Spring, K.C.I.E. (Chairman), Mr. P. Eccles, E.A., I.C.S. (Collector of Customa), Captain C.B. Henley, R.R.M. (Presidency Port Officer), and Mr. J. M. Lacey, A.M.L.C. (Superintending Engineer, V Circle, Madras).

Non-Officials.—(1) Nominated by Govern-ment.—Mr. A. Muirhead, C.I.E., Mr. B. Todd, M. R. Ry. Rao Bahadur P. Thyngaraya Chetti Garu, B.A., M. R. Ry. C. Gopol Menon Avergal, (2) Representing Southern India Chamber of India Chamber of Commerce, Madras,—The Hon'ble Mr. Gordon Fraser, Sir Hugh S. Fraser, Kt., Mr. A. P. Symonds, Mr. H. P. M. Rac, (3) Representing Southern India Chamber of Commerce, Madras.—Khan Bahadur Muham-mad Abdul Kuddus Badsha Sahib and M. R. Ry. Rao Sahib C. Ramanujam Chetti Garu, (4) Representing Madras Trades Association,-Mr. R. J. C. Robertson.

The receipts of the Trust from all sources were Rs. 13,13,310 against Rs. 11,66,697 in 1915-16. This represents an increase of 12.56 per cent. But Rs. 1,14,998 of the receipts were ascribable to the 25 per cent. superdues on exports and imports. The gross expenditure out of revenue—not counting contributions made by revenue to capital or repayment of debt—was Rs. 11,92,825 or the equivalent of 00,92 per cent of the gross reserved. 90 82 per cent, of the gross receipts. Exclud-

which in the year under review came to Re-4,92,161 actual working expenses came to 83.55 per cent. of actual harbour carnings against 50.81 per cent. in 1016-16. The increased percentage is attributable to heavy payments made for claims, due to the adverse judgment in the 'cotton case' and to law charges. average cost per ton of goods passed through the port by the Trust's own agency was Rs. 3.18 or, if the whole of the goods rassing through be counted including that not handled by the Trust, the average cost was Rs. 1 95 per ton-The harbour dues alone, i.e., excluding the charges paid by shipping came to about 1's annas per net registered ton.

The Port Trust's most important scheme, now almost completed, consists of the quaying of the whole of the western face of the harbour by sinking wells to a depth of 50 to 60 feet below low water so that ships way lie alongside and work their cargo direct with the short. The whole length of this work, full 3,000 feet, is almost ready. The West Quay provides berthing for four, or in an emergency, e.g. during a mobilisation, for six vessels of 24 to 28 feet draft. Back of the four berths are four transit single of an area of about 7 acres. Bettransit sheds of an area of about 7 acres. Between and outside of the ship berths, spaces,

equipped with 30 one-ton hydraulle cranes, have been reserved for working cargo in and out of lighters. Largo portal cranes are under supply for working cargo direct in and of out the holds of ships lying at the quay. Before the construction of this West Quay the 200-acre harbour enclosure afforded about half its area, with a depth of 20 to 32 feet, while the other half shallowed off to the western shore as shelving strand. Now the whole of the area is available for stramers of Suez Canal drafts.

Besides the four berths available for ships to lie at the West Quay, there have, for the last few years, been available three other shipquays, namely, the Outer Quay, used chiefly for the discharge of case oil and petrol on the north-eastern sheltering breakwater; the East Quay, used for cool at the old harboureutrance, now closed; and the South Quay, used chiefly by the Rangoon and Singapore passenger vessels, as well as by horse and cattle boats. All these three quays are connected up by rail with all parts of the harbour. But the Outer Quay is not now in use owing to the work that Is in progress to repair damage done by a cyclone.

The Port of Madras has always been very defective in accommodation for eargo awaiting the arrival of vessels for export. For this purpose many old and inconvenient godowns in the town have long been in use as well as certain slieds made available for the purpose by the Railways. But now the Port Trust has entered on a policy of constructing warehouses for lease to merchants wherein produce intended for export and, to some extent also, if desired, the same merchants imports, may be stored at a fixed rate per unit of area. Two of such warehouses have already been completed

and the whole of them are being leased. Part of the steel work for the third has arrived, but the balance is held up owing to war conditions. It is believed that the provision of this class of accommodation will have a very beneficial effect on the development of the export trade of Madras, and particularly on that of the ground-nut trade. The warehouses when complete will have a total floor area of about 55 acres in which exports can be graded, bagged and marked in preparation for shipment. Moreover the flat roofs are available for drying and grading purposes.

Madras port was, on the night of November, 22-23, 1916, attacked by a violent cyclone. The centre of the wind storm passed inland, perhaps 100 miles south of the port; but the heavy seas resulting from the cyclonic winds—which though violent in the path of the storm were of comparatively low magnitude at Madras—nudermined and overturned the 5,000-ton monolithic bastion block, forming the end of the outer sheltering breakwater and supporting

a small lighthouse.

Thereupon, deprived of its head, the structure of the breakwater was unable to stand up against the violence of the waves though composed of 20 to 33-ton concrete blocks with a 5-toot capping of solid concrete, and about 130 feet of it was destroyed and lies under water, while another 100 feet of it—out of the whole length of 1,500 feet—is badly shaken. The restoration of the damage and the formation of a new and impregnable bastion will probably cost not less than its. 16 lakis, and the work will probably occupy fully three years.

The Port Trust's debt at the end of the official year was Rs. 1,30,80,055.

RANGOON.

The personnel of the Commissioners for the port of Rangoon is comprised of the following thirteen members:—

Appointed by Government.—Sir George C. Buchanan, K.O.L.F., M. INST., O.E., (Chairman on deputation), Mr. J. Ll. Holmes, M. INST. O.E., (Chairman, sub. pro tem.), Mr. J. A. Stovens, (Chief Collector of Customs, Burma), Mr. E. O. S. Shuttleworth (Offg. Commissioner of Police, Rangoon), Contmander S.D. Vale, R.I.B. (Principal Port Officer, Burma), Mr. G. Scott, M.A., 1.0.S. (President Rangoon Municipality), the Hon'ble Mr. W. Macdonald, Mr. J. W. A. Bell and Mr. H. B. Huddleston (Vice-Chairman).

Elected by the Burma Chamber of Commerce.— Messrs. J. A. Polson, D. Robertson, W. Buchnnan and J. A. Swan.

Elected by the Rangoon Trades Assolution.—Mr. F. Watson.

Officers of the Trust are-

Secretary.—Mr. I. Cowling (on leave); Mr. H. Leonard (officiating).

Resident Engineer.—Mr. W. Lindley, sub. pro tem.

Executive Engineer (River Conservancy).—Mr. E. C. Niven, A.M. INST. C.E. (on leave); Mr. W. Lindley (officiating).

Deputy Conservator.—Mr. H. G. G. Ashton (on leave); Mr. G. Cardno (officiating).

Traffic Manager.—Mr. R. H. Keeling (on leave); Mr. J. H. Primrose Wells (officiating).

Chief Accountant.—Mr. D. H. James,

Port Health Department.—Dr. F. A. Foy M.R., C.M., D.P.H., Port Health Officer.

Port Police Department.—Mr. T. Austin, Superintendent.

The receipts and expenditure on revenue account of the port of Rangoon in 1916-17 were as follows:—

Rs. a. p.
Receipts ... 45,12,688 4 2
Expenditure ... 41,99,116 4 11

The capital debt of the port fund at the end of the year was Rs. 2,98,62,000. Securities (at cost) of Rs. 51,88,816 are held at the credit of the sinking fund.

The total value of the port during the year was Rs. 4,438°34 lakhs, as compared with Rq. 4,089°90 lakhs in the preceding year.

The total imports (landed or sent inland in river craft) from sea-going vessels amounted to 956,289 tons. Goods landed from vessels

practicable gap in the barrier of the Rastern Chats, is formed by nature to be the outlet of the Central Provinces, from which a considerable amount of trade has taken this route in the fast, even with the imperfect communications little to available. A moss-sary complement of the scheme would be the construction of the proposed railway by Parva'l. Protecting, the cutrance to the Port from the puram to Raipur, which with the existing effects of south and south-westerly gates.

of the port as part of their railway system, iconst line of the B nual Narper Railway, would have that the creation of such a pert would have, make a larre end tich area till man to the propered part, and obtains the long and expansioned. It is pointed out that Viragas, be supplied in the next direct following ration, lying as it does in front of the only practicable gap in the barrier of the Eastern an importal point of view the prosible provision in the tent of the formed by many of the tree states. of a fortified port on the long and almost unprotected stretch of coast between Colombo and Calcutta is held to be a consideration of great importance. The lotty projecting headland of the Polphin's Nore would, it is pointed out, offer facilities for this purpose as will as

STOCK EXCHANGES.

regulations framed by the Board of Directors Mahimwala, Mr. Nasserwanji Pherozesha Karani, Mr. Nasji Motichand, Mr. Hirachand Vasanji, Mr. Biaidas Goculdas, Mr. Vadlial Punamchand and Mr. Jamnadas Morarji (Secretary).

At first the admittance fee for a broker was

Rs. 5 which was gradually raised to Rs. 1,000.
The fee for the Broker's eard has increased and it was recently sold at Rs. 6,000.
The rules of the Association were revised in October 1018 and from the New Year the purchaser of shares has to pay the stamp and transfer fee instead of the seller. stamp and transfer re- instead of the Street.
There are two classes of Exchange Brokers,
Europeans and Indians, the latter being certified for recognition by the native Stock Exchange. Business in Government Paper and all other Trustees' Authorised Securities is carried on under the rules of the Bombay Stock Exchange, but in the street outside the hall.

In November 1917 a second Stock Exchange was opened in Bombay, with its headquarters in Apollo Street,

for many years the Calcutta Share Market had its meeting place in various guilles in the business quarter and was under no control except that of established market custom. In 1998 the Calcutta Stock Exchange Association was formed, a building was leased clation was formed, a building was leased in New China Bazar Street now called Royal Exchange Place, a representative committee was formed, and the existing trade customs

There are about 365 Share and Stock Brokers' were focused into rules drawn up for the conin Bombay. They carry on business in the iduct of business. Admittance as a member
Brokers' Hall, bought in 1899 from the funds of of the Stock Exchange is by vote of the comthe Share and Stock Brokers' Association imittee, and the entrance fee is at present
formed to facilitate the negotiations and the 'Rs. 500. The market custom differs very materially from that of most other Stock Exchanges sale and purchase of Joint Stock securities ally from that of most other Stock Exchanges promoted throughout the Presidency of Bom. since there are no settlement days, delivery is Their powers are defined by rules and due the second day after the contract is passed and sales of securities are effected for the most and approved by the general body of Brokers, part under blank transfers. Another difference The Beard has the power to fix the rates in in procedure as compared with the London times of emergencies. It is composed of Sir Stock Exchange is that there are no "Johbers" Shapuril Broacha (Chairman), Mr. Parbhudas in the Calcutta market. The Dealers who Jivandas (Vice-Chairman), Mr. Shapurjee Sorabjee Restonji Bharucha, Mr. Shapurjee Sorabjee to quote a buyer's and a seller's rate and are themselves Brokers as well as dealers, calling upon the Banks and other clients and competing with Brokers.

There are about 150 members, besides outside brokers, the former consisting of European, Jewish, Marwari, and Bengalee firms. The Marwaris predominate. The volume of form fide Investment business is comparatively small and insufficient for the number of lirokers. The principal business transacted on the Calcutta Stock Exchange is connected with the shares in Jute Mills. Coal Companies, Tea Companies registered in India, Miscel-Tea Companies registered in hum, historiancous industrial concerns (such as Paper, Flour, Sugar). Railway and Transit Companies and Debentures, the latter comprising those of Industrial concerns and Trustee's Investment Securities, namely, Simileipal and Port Trust Debentures. operations are being actively engawhich frequently take the form of forward contracts for delivery in three months time, the value of securities changing hands may aggregate as much as a crore of Rupers per month, but since the trade is not constant and one year differs very much from another, it would be difficult to estimate what the average turn over would amount to. The association has an honorary secretary and is not at present affillated to the Bengal Chamber of Commerce.

Famine.

Familie in India is the inevitable accominately exist, available for the whole of India. In paintent of economic conditions which have India there is now no such a thing as a feed the bulk of the people dependent on the soil familie; the country always produces crough for their means of livelihood. It is intensified, food for the whole of the population; familie because the produce of the soil over the greater when it comes is a money familie and the task; but it is the families of the soil over the greater when it comes is a money familie and the task; occause the produce of the solitover the greater, when it comes is a money familine and the insert part of India is independent on a short rainy of the State is confined to providing the mrans scason, and the rains are erratic and subject for those affected by drought to care enough to violent fluctuations. It falls with except to buy food. The machinery whereby this is tional soverity on India because the soil is divided into a multitude of petty holdings, experiences through which it was evolved. This to buy food the machinery where seen the divided into a multitude of petty holdings, experiences through which it was evolved.

History of Recent Families. amongst whom credit ceases to exist as soon as the rains fall. In other agricultural countries there are good seasons and bad; but there is none other, with the possible exception of China, where in a famine year millions of acres may not yield so much as a blade of grass, except nuder artificial irrigation. The conclusion to be drawn from these conditions is that for many years to come India must be susceptible to famine. The shock of famine may be mitigated by the spread of railways, by the dovelopment of irrigation, the growth of manufacturing industry and the improvement of rural credit.

ero is evidence that all these forces are in greatly to reduce the social and econoale disturbance caused by a fatture of the mins.

But they cannot entirely remove it.

Famine Under Native Rule.

At one time there was a general tendency to attribute famine in India entirely to the effect of British rule. In the golden age of India, we were told—whenever it may have been—famine was unknown. But India had been drained of its resources of food by the railways, the people had been impoverished by the land revenue demand and the country as a whole had been demand and the country as a whole had been rendered less capable of meeting a failure of rains by the "Drain" caused by the Home Charges (qv). These failactes have disappeared under the inexonable logic of facts. A better knowledge of Indian history has shown that famines were frequent under Native rule, and frightful when they came. "In 1630" says Sir William Hunter, in the History of British India, "a calamity fell upon Gujaret which enables us to realise the terrible meaning of the word famine in India terrible meaning of the word famine in India under Native rule. Whole citis and districts were left bare of inhabitants." In 1631 a Dutch were left bare of innapriants.
merchant reported that only eleven of the 260 families at Swally survived. He found the road thence to Surat covered with bodies decaying on the highway where they died, there being none to bury them. In Surst, that great and crowded city, he could hardly see any living persons; but "the corpses at the corner of the

The Orlssa famine of 1863-67 may be taken as the starting point because that induced to first great and organised effort to combat die tress through State agency. It affected 180,000 square miles and 47,500,000 people. The Bensal. Government was a little slow in appreciating the need for action, but later food was poured into the district in prodigious quantities. Thirts-five million units were relieved to unit is cut person supported for one day) at a cost 95 lakir. The mortality was very heavy, and it is estimated that a million people, or one-third of the population, died in Orissa alone. This was followed by the Madras famine of 1866, and the familie in Western India of 1868-70. The latter familie introduced India to the family interesting from introduced India to the great migration from Marwar which was such a distinguishing feature of the famine of 1800-1000; it is estimated that out of a total population of a million and a hall in Marwar, one million emigrated. There was South Indian Famine of 1876-78. This affected Madras, Mysore, Hyderabad and Bombay for two years and in the second year extended to parts of the Central and Hottes. parts of the Central and United Provinces and to a small tract in the Punjab. The total arts affected was 257,000 square miles and the Ponjabition 58,500,000. Warned by the excessive expenditure in Behar and actuated by the desired actions of the company the Gamman. to secure economy the Government relief pro-The excess gramme was not entirely successful. mortality in this famine is said to have been 5,250,000 in British territory alone. Through out British India 700,000,000 units were rellered at a cost of Rs. 81 crores. Charitable contri-butions from Great Britain and the Colonics aggregated Rs. 84 lakhs.

The Famine Codes.

The experiences of this famine showed the necessity of placing relief on an organised basis The first great Famine Commission which ist under the presidency of Sir Richard Starcher, elaborated the Famino Codes, which amended to meet later experience, form the basis of the famino relief system to-day. They recommended (1) that employment should be given on the relief works to the able-bodied, at a wage sufficient for support on the condition of review. persons; but "the corpses at the corner of the streets lie twenty together, nobody burying them. Thirty thousand had perished in the town alone. Pestllence followed famine." Further historical evidence was adduced by Sir threeders Morrison in his volume on the Economic Transition of India. The "Drain" theory has been exploded. It has come to be seen that whilst railways have checked the old-that the land-owning classes should be assisted that the land-owning classes the land that the land-owning classes the land that the land-owning classes the land th Governments had been given time to digest the proposals of this Commission or the people to recover from the shock, the great famine of 1899-1900 supervened.

rainfall over the whole of India was in extreme by the Government of India alone—the supreme responsibility of saving human life. Aided by leans to the extent of Rs. 31 crores, the Native States did a great deal to bring their administration into line with that in British India. Although actual deaths from starvaof cholera, and the devastating epidemic of a population of 14 millions,

Famine Code to the provincial povernments, implates which followed the advent of the raine; the Government of India laid down as the induced a famine mortality of approximately randial feature of their policy that the famine a million. The experiences of this famine wage "is the lowest amount sufficient to main, were collated by the Commission provided over tain health under given circumstances. While by Sir Antony MacDonnell. This Commission the duty of Government is to wave lift, it is not yield reported that taking the famine period found to maintain the labouring population as a whole the relief given was executed, and at the normal level of comfort." Provincial laid down certain modified lines. The cardinal articles are distributed to the fine famine of their modifier was more distributed. at its normal level of comfort." Provincial laid down certain modified lines. The cardinal codes were drawn up, and were tested by the famine of 1800-07. In that 207,000 square miles were affected, with a population of at the start they would be the people were avisted miles were affected, with a population of at the start they would be the theoretical formal of their programme to deteriorate (0.00,000 at the time of greatest districts. The fact condition were allowed to deteriorate to of famine relief was its. It cores, revenue, in the forefront of their programme the necessar remitted to the extent of Rs. It cores, revenue, in the forefront of their programme the necessar remitted to the extent of Rs. It cores, revenue, in the forefront of their programme the necessar remitted to the extent of Rs. It cores, revenue, in the forefront of their programme the necessar remitted to the extent of Rs. It cores, revenue, in the forefront of their programme the necessar remitted to the extent of Rs. It cores was subscribed, the early suspension of revenue, and a policy in the United Kingdom. The actual famine of prudent holdness, clarifug from the preparations in the United Kingdom. The actual famine of prudent holdness, clarifug from the preparations in the first in British India was estimated at ration of a large and expansive plan of relief 750,000. The experiences of this famine were and a recursed by liberal preparations, constant examined by a Commission under Elf James. Viciliance, and a full enti-tuent of non-official typic with the propriet distant the success attained help. The wage scale was revised; the mil-Lyall, which reported that the success attained help. The wage scale was revised; the miin eaving life and the relief of di-trees was almum wage was abolished in the case of able-greater than had ever been recorded in famines, bodied workers; payments by results were comparable with it in essentity, and that the recommended; and proposals were made expense was moderate. But be one the Local, for saving cattle.

Success of the new policy.

of 1899-1900 supervened.

The Famine of 1899-1900.

The Famine of 1899-1900.

This famine affected 475,000 square miles with a population of 50,500,000. In the Central Provinces, Berar, Bombay, Ajmer, and the rains failed in the United Frovinces in 1907-08, Ilissar district of the Punjab famine was scute: living in the Central India, Hyderabad and Kathlawar. It was with the greatest liberality. The effect of these marked by several distinctive features. The measures was succinctly indicated by the region of the United Provinces. Lieutenant-Governor of the United Provinces, rainfail over the whole of India was in extreme Licurchant-Governor of the United Provinces, defect, being eleven inches below the mean. Sir John Hewett, in a speech in summarising In several localities there was practically no his administration prior to his departure in rain. There was in consequence a great fodder. England in March 1012. He showed that in the famine, with a terrible mortality amongst autumn harvest of 1007 there was a shortage the cattle. The water supply was deficient, of 4 million tons of food grains and in the spring and brought a crop of difficulties in its train. Inarvest a shortage of 3 million tons, giving a Then districts like Gujarat, where famine had total of seven million tons, or the food ambient unknown for so many years that the location of the Province for nine months and lity was thought to be famine immune, were lan economic loss of £38 million pounds. The autum harvest of 1907 there was a shortage of 4 million tons of food grains and in the spring harvest a shortage of 3 million tone, giving a total of seven million tons, or the food supplies for the Province for alice months and an economic loss of £38 million pounds. The Government advanced £13 million to cultility was thought to be famine immune, were an economic loss of £38 million pounds. The affected; the people here being softened by prosperity, clung to their villages, in the hope of saving their cattle, and came within the scope of the relief works when it was too late scope of the relief works when it was too late whole of this sum was repaid except fifty-four to save life. A very large area in the Native thousand pounds remitted owing to a second States was affected, and the Marwaris swept from their impoverished land right through! Central India like a horde of locusts, leaving then outstanding. By common consent a desolation in their train. For these reasons loss and suffering to the people, and two years relief had to be given on an unprecedented later hardly a trace of it remained. In 1911 scale. At the end of July 4,500,000 persons were supported by the State, Bs. 10 crores in Gulgarat in the Bombay Presidency and were spent on relief, and the total cost was casting at a Rs. 15 crores. The famine was also marked by a widespread acceptance by Native States of the duty hitherto shouldered by the Covernment of India alone—the supreme resourcefulness of the people, than it was so resourcefulness of the people, than it was so late as 1809. Still further evidence in the same direction was furnished when the raim failed over large areas in the United Provinces. in 1013-14. This famine affected 17,000 square miles with a population of 61 millions, whilst tion were insignificant, the extensive outbreaks distress was grave in 30,000 square miles with

year—the points points soon emerged from the people showed greater resisting tho! power owing to their improved economic con-dition; they met the emergency with wonder-ful courage and resource; and the application of the relief programme brought the numbers on public works within manageable recover on public works within manageable propor-tions, and induced the speedy return of the people to their normal avocations when the advent of bountiful rains in 1914 enabled agricultural operations to be generally resumed.

staff is kept in readiness to deal with cholera, which so often accompanies famine, and ma-latia, which generally supervenes when the rains break. Recent experiences go to show that never again will the Government of India be compelled to distribute relief on the tre-mendous scale demanded in 1890-1900. The high prices of produce have given the culti-vators considerable resources, the extension of irrigation has protected a larger area, and of irrigation has protected a larger area, and labour has become more mobile, utilising to the full the increasing industrialism of the country. For instance, in 1911 the rains in Gujarat failed completely, yet there was little demand for relief works, and the necessities of the cultivators were rather for fodder for their cattle than for money or food for themselves. Various schemes are now under themselves. Various schemes are now under consideration for the establishment of fodder reserves in the villages.

Famine Protection.

Side by side with the perfection of the ma-chinery for the relief of famine has gone the development of famine protection. The Fa-mine Commission of 1880 stated that the best, and often the only means of securing protecand often the only means of securing protection from the extreme effects of famine and drought, are rallways and irrigation. These are of two classes, productive and protective. Productive works being estimated to yield profits which will pay interest and sinking fund charges are met from loans; protective works, which do not pay, directly from revenue. In order to guarantee that there should be continuous progress with protective works. the Guarantee that there should be continuous progress with protective works, the Famine Insurance Grant was instituted in 1878. It was decided to set apart from the general rovenues Rs. 11 crores annually, or one million sterling. The first charge on this

grant is famine relief, the recond protective works, the third too avoidance of debt. chain of protective militarys is now practically complete. Great progress is being made with protective Irrigation. Acting on the advice of the Irrigation Commission (gr) an elaborate programme of protective irrigation works it being constructed, particularly in the Bombay Decean—the most faming rescribed distinct in Indiagraph is the Configurations. in India—and in the Central Provinces. When these are completed, the shock of drought

The Government of India is now in possession of complete machinery to combat the effects of drought. In ordinary times Government is kept informed of the meteorological conditions and the state of the crops; programmes of suitable relief works are kept up to date, the country is mapped into relief circles, reserves of tools and plant are stocked. If the rains fail, policy is at once declared, non-officials are enlisted, rovenue suspended and loans for agricultural purposes made. Test works are then opened, and if labour in considerable quantities is attracted, they are converted into relief works on Code principles. Foor houses are opened and gratuitous relief ins the people are moved from the large in the large of providing a permanent famine for this purpose, and in 1800-1000 the mople sum of Rs. 16 lakhs, in Government securities, to small works near their villages, liberal in time of famine. This Trust has now swollen in time of famine. This trust has now swollen in time of famine. This trust has now swollen in time of famine. This trust has now swollen in time of famine. This trust has now swollen in time of famine. This trust has now swollen in time of famine. This trust has now swollen in time of famine. This trust has now swollen in time of famine. This trust has now swollen in time of famine, and is freely used in an emergency.

The following statem at shows details of

	Assets as at 31st December 10	16:		
	Endowment l'und invested in Government Sceurities vested in the Trasurer of Charitable Endowments—	R*, a.	,	p.
	Balance brought forward from 1015	28,10,000	0	0
	Total Endowment Fund	28,10,000	0	۰ نــ
	Government Securities repre- senting Assets temporarily invested—			
4 1	Balance brought forward from 1915	8,05,100	0	.0
i	Add—Purchases during the year of 4 per cent. G. P. Notes	2,00,000	0	0
	Balance at close of the year	10,05,100	0	0
	Cash in Current Account in Bank of Bengal	47,341	8	2
	Total available for expenditure	10,52,441	8	<u>e</u>

GRAND TOTAL ..

38,62,441 8 2

The Cost of lamine.

folder, was about \$352,660, a far emplier flaure than in the familie of 1907-05, atthough The fruits of this policy are revealed in a return on the last serious famine as preat. The Public Works Separament, the which has occurred in India. In the United Provinces the failure of the 1913 for the carrying out of numerous projects with meason, followed by peor and meason famine labour. These comprised construction also cold weather rains, led to a widespread of reads, tanks and irrigation works and the failure of copy affecting an area of 18,200 reclamation of tayine hall-works of unsupersuper miles and a population of a millions. failure of crops affecting an area of 18,200 reclamation of tayine land—all works of unsquare miles and a population of a millions, doubted utility. Gratuitous relief amounted but the property of the preceding years to £90,000; it was given principally to persons had enabled the population to develop a far instability of working. A marked feature of greater staying power than on previous occa- the famine was the extreme scarcity of folder, slons of famine, not was the rise in feol which was met chiefly by concession rates slons of famine, not was the rise in feol which was met chiefly by concession rates slons of marked. Government had loans for the carriage of folder on railways and the occultivators amounting to over £1,250,000, supply of hay from the forests. Much good besides suspending land revenue and sanction—work was done by non-official efforts, and a long replies lous amounting to over £17,000, charitable fund was raised to the amount. The necessity for direct measures of reflet of £2,52,53. The total cost of the famine to did not arise till becember, which is const-flowerment is estimated at £250,000, as against detaily later than on previous occasions of £2,50,000 in 1007-08. Good rains in July famine. The cost of direct relief operations land September 1014 finally telleved the efficiency of forest measures. famine. The cost of direct relief organitions and September 1914 finally refleved the situto Government, including providion of cattle-tation and ensured a good kharif crop.

BOY SCOUTS.

The Boy Scouts movement, initiated in England by Id.-Gen. Sir Robert Raden Powell (the Chief Scout), has spread widely in India, and the Boy Scouts Association has received the patronage of the Viceroy and the back of the lead of the heads of the local governments. The aim of the Association is to develop good citizenship among boys by forming their character—training them in habits of observation, obedience and self-relance—inculenting logality dience and self-relance—inculenting loyalty and thoughtfulness for others—and teaching them services useful to the public and handlemits useful to themselves.

The following division of duties of the Indian Headquarters is officially published for Information:—The Assistant Chief Commis-sioner deals with all matters of organization and Discipline, including the issue of Warrants to new local Associations and Officers, also the registration of new troops, which should be applied for on Form O, obtainable from the General Secretary. Recommendations for General Secretary. Recommendations for awards of Life Saving Medals and Cortificates should be made to him and also all applications for exemption from the swimming test for lst class (Regulation 21) and all correspon-dence on the subject of Challengo Trophies. Owing to the war the movement in India lins suffered considerable dislocation and embarrasssuitera considerable dislocation and empariassment. Fifteen new associations were formed during 1014-15 but six others are temporarily in suspension. The latest annual report gives the following details of a census of Boy Scouts Associations in India:—Local Associations, 43, Troops, 09. Scout Masters, 90. Assistant Scout Masters, 20. Scouts, 2,167. Wolf Cubs, 180. Grand Total, 2,457.

The General Secretary deals with routine matters official publications, sale of badges, and also all matters connected with the official publication, The Boy Scouts Gazette of India. Local Seen taries can communicate with him direct on these matters and it is not necessary to refer to the Commissioners on such subjects.

The Boy Scouts Garette of India published monthly, is the official organ of the Movement in India and in it are notified all official notices and orders issued by the Indian Headquarters. It to obtainable from the General Secretary. Subscription Rs. 2-8-0 per annum.

MEADQUARTERS STAFF IN IRDIA

hie, Commissioner—Major-General May, C.B., C.M.G. Luckilow. Chie.

Deputy Chief Commissioner—Lleut. General Sir W. R. Birdwood, R.O.S.L., R.C.M.O., C.R., O.I.E., D.S.O. On Service.

Offg. Deputy Chief Commissioner-Major-Genera R. Warshare, C.r., Poons,

Commissioner for Sea Scouts-Captain W. Lums. den, o.v.o., A.D.o., R.N., Director, Royal Indian Marine, Bombay.

epuly Commissioner for Sea Scouls-Com-mander B. A. Constable, A.D.O., R.S., Comman-Depulu Commissioner dant, Calcutta Port Defence Volunteers,

Asnstant Chief Commissioner—Captain W. P. Pakenham-Walsh, n.r., Poons. Hon. General Secretary-Captain A. G. Potter

A.D.C., Dilkhushn, Lucknow, Hon. Treasurer-E. E. Savi, Esq., Alliance Bank

of Simla, Calcuita. Bankers.—The Alliance Bank of Simla, Calcuita

Co-operative Credit.

rics with such diverse conditions as Germany, Italy, Switzerland and Ireland, that enthusiasis like Mr. Wolff, social workers like the late General Booth, and Indian administrators like Sir Anthony (now Lord), Macdonell and Mr. Duper-nex were anxious to introduce the movement to improve the economic and moral condition of the Indian ryot. More than sixty per cent. of the vast population of India subsists on of the vast population of india subjects on agriculture and the majority of these millions generally live, under present conditions, from hand to mouth. The ryot's occupation is healthy and productive, and he is proverbially honest and straightforward in his dealings, except when years of famine and hardship make him at times crafty and recalcitrant. Owing to his poyetry combined with ablatical Owing to his poverty, combined with deficiency in education and consequent lack of foresight, however, he has to incur heavy debts to meet occasional expenses for current seasonal purroses, the improvement of his land, or for ceremonial purposes, and he has therefore to seek the assistance of the local money-lender, own as the Sowkar or the Mahajan. The sovince to province and even in different arris of a province. The average rate ruling throughout Bombay Presidency is lower than in most other provinces and there are again variations in the rate in the Presidency itself: it is 6 to 12 per cent, in Gujerat, and 12 to 24 per cent, in parts of Decean, while it rises to the enormous algore of 50 per cent, in several In addition to charging these excessive rates the Sowkar extorts money under various pretexts and takes from the needy borrower bonds on which heavy stamp duties are payable. One of the chief causes of the ryot's poverty is, that owing to the absence of security and his short-sightedness due to want of education he does not as a rule collect and lay by his savings, but fritters away his small earnings in extravagant and unproductive expenditure on the purchase of trinkets and ornaments and on

Society would change all this, hasmuch as it would provide him with a suitable institution in which to lay by his savings and would teach him the valuable lesson of self-help through the sense of responsibility he would feel in being its member. Thus the chronic poverty and indebtedness of the Indian agriculturist afford a very good field for the introduction of co-operative methods, especially as his work that the production of the company of the production of the introduction of is of a productive character likely to enable him to earn a better living under circumstances more favourable than they are at present, First Scheme Proposed .- The question of improving rural credit by the establishment of agricultural banks was first taken up in the early nineties when Sir W. Wedderburn, with

marriage and other ceremonks. In some cases, he heards coins under the ground with the likelihood that on his death the money is lost

to his family for gold. This absence of thrift and the habit of dependence, in case of difficulty,

on the Government or on the Sowkar are the bane of his life. There is besides a total absence of ideals or desire for progress. A Co-operative Society would change all this, inasmuch as it

Before the end of the last century the co-operative movement had proved so successful a scheme of Agricultural Banks which was in its attempt at re-generating rural life in count-tion rule with the supplier of the last countwas not sanctioned by the Secretary of State. The matter was not scain taken up until about fifteen years later when Lord Wenlock's Gorernment in Madras deputed one of its ablest officers, Mr. F. A. (now Sir Friderick) Nicholson, to report on the advisability of starting Agricultural and other Land Banks in the Presidency for the relief of the agriculturists. Sir Frederick had prepared himself by a thorough strily of had prepared himself by a thorough strily of Agricultural Banks and Co-operative Societies and had visited many European countries to see for himself the various developments of the co-operative co-operative movement. He was also con-versant with the social conditions of the Preddency where there had been in existence and intitution called the Nidhl, which corresponds in some realects to the Frondert Funds and Friendly Societies in European country Though these institutions provided cheap level capital to the agriculturists the spirit of co-operation was lacking in them. This wast was supplied in early times by the This-Panchayats which showed to what exteri communal life and lifeas of local self-coverament had developed in India. Sir Frederick, after thoroughly going into the conditions of the Presidency, submitted an exhaustive report to Government suggesting that the formation of Co-operative Societies afforded an excitor means for relieving rural indebtedness. The report surveyed the growth of the co-operative movement in European countries, the conditions favourable to its development in India. introduced, and the difficulties to be encountered in introducing it and making it a rucces her. Finally, it contained for the consideration of Government a draft Bill for the consideration of Co-operative Societies. Sir Frederick Fields for concessious to be given to the Soriet such as exemption from the income-tax and remission of the stamp duty—as he felt that if would be possible to attract the people to the new movement only if Government shorel its active sympathy towards it at the commen ment. He ended with a fervent appeal to the non-official community "to find a ltaiffeign who would be a beauty to find a ltaiffeign. who would help the ryots of this country in achieving results equal to those obtained by Raiffelsen's noble efforts in Germany. The fortunately the report was not received favourable either to be the country in the country of the country in the country of the c favourably either by the non-official public or by the Government of Madras, and no action was taken on its surgestions.

Famine Commission of 1901.—The next few years saw two of the worst famines that India had ever suffered from, and in 1901, Lord Curzon appointed a Commission to report on the measures to be adopted in future to prevent families and to protect the ryot from their ravages. The Commission laid stress on the proper working of the Agriculturidi'. Loans and the Land Improvement Loans Acts under which takari advances are made to cultivators. This system was given a low trial in the years previous to the great famines well as during the ten years succeeding the 1899-1900 famines. But it is acknowledged on all bonds that the arxive ten have a failure on all hands that the system has been a failure





on the tolal amount advanced during 1913-14; to serve as an asset or security in horrowings, was 47, in Bombay 43, in Burma 30, the average Except in the Central Provinces and Madras, for all the Provinces being 14 per cent. This the Reserve Funds of primary societies are feature is noteworthy as real credit on a whole-scale is not quite compatible with the expital though steps are being taken in some true applied to operation. At the Annual parts of the control of t operative year, the accounts are submitted, and from the working capital and invested the balance-spect passed, and a new Managing in Government securities or placed as floating Committee with, it necessary, a new chairman ideposits in reliable central Banks. The Government is elected. The general meeting erment of India state in their Resolution of fixes in some provinces the horrowing limit of 17th June 1914 "that while there may be of individual metabors, lays down the maximal post of 18th June 1914 "that while there may be not individual metabors, lays down the maximal secretary in 1914 "that while there may be not individual metabors in the Managing Committee may berrow during the ensuing year, society, it should gradually, as it becomes more dismisses members for misconduct or serious society, it should gradually, as it becomes more important, be set apart for separate investments." default, and settles the rates of interest for The amount of the Reserve Fund of agricultural societies is roughly 60 lakins of Rupees, informal, other local topics of public utility, and forms 8:11 per cent of their total flabilities, and society are annually carried to the Reserve to be carried to Reserve, 10 per cent, of the

security than in others, and mortgages have cannot be drawn upon without the sanction been at times more freely accepted as recurity of the Registrar, and which must be invested than is either necessary or desirable. In Madeas the percentage of loans secured on mortgage it is included to meet unforces no losses and on the total amount advanced during 1913-14 to serve as an asset or security in terrowings. of the society are annually carried to the Reserve to be carried to Reserve, 10 per cent. of the Fund, which is indivisible, that is, incapable total outside capital of the societies including of distribution as dividend or bonus, which imembers deposits.

Progress of the Movement.-The following statement shows the progress of Agricultural Societies up to the end of the official year 1015-10:-

Provinces.			Number of Bocicties,	Number of Members.	Total Working Capital.	Referve Fund.
					Re.	Rs.
Madras			1,001	1,00,701	74,95,140	5,35,740
Bombay ,,		{	835	05,832	40,58,801	3,05,807
Bengai	٠.	'	2,007	94,974	30,04,370	6,28,050
Bihar and Orises	1	•• }	1,221	57,159	20,37,795	2,00,100
United Province	6		2,944	1,06,333	51,32,041	4,60,460
Punjab			3,319	1,41,666	1,48,24,633	27,33,092
Barma	٠.		1,706	39,573	53,44,362	6,36,141
Central Province	25	(2,430	41,554	32,77,173	2,75,082
Assam			283	15,792	3,95,185	60,255
Coorg			23	2,641	1,15,700	24,193
Ajmer			949	11,004	9,15,000	
Мулоте			618	37,862	16,71,610	47,845
Baroda			295	8,617	6,32,257	00,503
		-				
To	JAT	-	. 17,729	7,22,858	5,15,94,690	60,25,103

Progress of the Movements. The following exact of the the perfettes me to the end of the emelal year 1012 is a energy

Proxinecs.	Provinces. Cont desire the trained the trained the trained the trained to the trained trained to the trained		IA gravits o	tinal laterist of faterist on fings to districts.	
AT HER PARTY STATE OF THE PARTY	1::	ftr.	1	preciate	
Madras	56,639	0.36	71	Ď.	
Bemlay	51,550	1,23,243	·	<i>h</i> ;	
Thougat	Constant	1,62,49-		4 171 A 171	
Bilar and Origin .	1,5%	1,21,545	121	程間	
United Provinces .] 79,851	1,75,7605	115	13	
Panjeb	6-,955	-,13,559	E 415 P	151	
Burina	1,25,634	2,16,243		154	
Central Prosinces	3,575	02,351	q	12	
Assam	5,630	22,015	9	121	
Coorg	7,145	2,600	5,614 5	12)	
Almer	6,766	27,411	10	12	
Mysore	12,500	70,070	6 to 71	03012	
Baroda	G, \$ 3 m	33,656	ti to †	101	
Total	1,14,502	19,85,401			

The promes of the movement in different the power classes referred to later have were provinces varies according to the activity in a limited liability. This is due paths to the organisation works well as the special conditions of each province—the prevailing rates of interest being the most important of these. A limited liability. This is due paths to the organisation works with a the prevailing rates of the members, but mainly to the field of the interest being the most important of these. A least not being compact as in the case of agricultural societies where every member may be too administ to the Co-operative Societies' Act expected to know the case of the members. The tion similar to the Co-operative Societies, Act expected to know every other member, 12-in their territories and the most prominent of constitution is based on the Schule Politics.

theso are Mysore and Beroda. Hyderabad, madel and in most cases the management is sufficiently and indore have only very recently honorary, thousins one times, when the space introduced co-operation in their States. The society's work is extended, a pair staff is frequently of the experiment have been as satisfactory as in British India.

Non-ngricultural societies.—Just as rural obtained by local decreases from members from membe Non-negricultural societies, Just as rural obtained by local deposits from members at Non-agricultural societies,—Just as rural obtained by local deposits from members for societies are the means of resuscitating the others and loans from co-operative and John the non-agricultural industry, a class of society called the non-agricultural societies, has grown in towns and cities for improving the economic and moral condition of persons engaged in handle caps and cottage industries, of artisans and small traders, includers of particular castes and employees and of big furns and Government departments, Non-agricultural Societies, except those of captal Rank, Ra. 37,00,000 deposits for handleraftsman, artisans, and persons of aid. At the end of every year one-fourth of for handleralisman, artisans, and persons of hild. At the end of every year one-fourth c

and provided of the couplet to style procession for ear first of the Registrer, to a laying pr to of an little historian called a superfictive differentiation. After a nifeties, of the property of factories in India. conservational societies, after theeling the so that, if succeeding they may become the needs of their highlers, have large belances foremittees of a healthy Trade Unionism in ch list I, which they are allowed, with the pre- India.

in the Negative of the end of hand to and type of the end though abouting class has grown by his about them, the neithealth in more of the dig bedieffel towns and this class is as deeply Becutters subjet reports, The post engine in letter and as I ally remunerated as the x 1 store complaints are I'st the again of one agriculturiets. Competation, If introduced represent the technic in the presentation of the class, while the technic in the control of the firms light a than they with to be, and the of an organization known as the Debt Helemp-account the test of the a wirds a see light to your Committee 18 mill hands and working hit then comfort who are in next of fluid in nice excision have been organized in Rombay, 17 less of the latter critics down the peetis. This posteties have been oversein) in redicine thes, and converticed offices there are in extent of Rs. 1.20,000 in the course of the last source printed as There are nowing now confer three general terms of the tree engants of the tree engants of the tree engants of the tree engants of the tree engants. finite of Purify to as the instruction in price is a state of the first to the contribute. Its, 10,000, being trainer and artisms in tooms and there are work in this direction has also been done in all a sorm societies economically members of Madras. But sorbibles should be multiplied a particular conduction is. Some of the farger hundredfold smoon all classes of working-men

Progress of Non-agricultural Societies .- The following statement shows the progress of Non-agricultural Co-operation up to the end of the year 1913-16:-

Penincis.		Nutat- r	Smaler	Total		Cast of	. Net	Usual rate of Interest on	
		nf	of Metalem	Working Capital,	firserve fund.	Manage- in-nt.	Profit during the year.	Lend- ings.	Borrow-
1 1 1 mag 1 1 may 1				Re.	Rs.	Its.	Rs.	R4,	H4,
Madras	٠.	157	31,565	21,27,622	1,46,201	74,652	78,765	6	9
Bombay	٠,	152	29,164	25,77,791	1,42,560	41,495	00,252	6 to 61	0 to 18;
Dengal	٠.	123	22,214	21,04,526	01,956	25,121	1,03,961	61	D) to 12]
ling reduit		55	7,995	2,16,749	11,738	3,032	6,470	4 to 12]	NI to 181
United Pro-		152	6 '814	4,62,969	40,406	10,677	17,971	• 12	1.5
ורנמטיו		::2	2,000	2,04,389	41,617	0,740	ຄ,8ຄຄ	GtoB	0} to 12!
Burma	٠.	46	3,526	6,23,427	1,00,818	8,269	62,363		
Central Pro- vinces	٠.	р;	2,085	1,32,850	13,004	1,209	5,654	n	12
Assam		18	1,635	1,74,077	14,496	3,776	7,622	0 to 01	02 to 123
Coorg				****					
Ajmer				,]		••	
Myson	٠.	104	25,302	17,43,750	84,856	26,042	1,24,462	5] to 6]	9 to 12
Birola	••	25	1,729	97,157	2,819	1,746	2,221	41	61 to 92
Тотаћ		1,010	1,48,195	1,16,21,253	7,17,434	2,07,218	5,18,316		·

case of every individual loan. As an indirect result of the establishment of the Bombay Central Bank, a number of District Banks have since been started in the Presidency.

The drawback of the Bombay and the Madras

Central Banks is that neither is a co-operative Apox Bank in the true sense of the term. In the Bombay Central Bank Co-operative Societies are now encouraged to become members and may be expected gradually to assist in shaping its general policy. The share holders of the Madras Central Pank, have agreed to convert their Bank into a Provincial Bank on smind on controlling lines A Propincial Rant-

the previous sanction of the Registrar in the an immediate link between the District Banks in the Province and the Commercial Banks in Allahabad and elsewhere. It has worked well and its success led to the establishment of a Provincial Bank with a similar constitution in Behar and Orissa. A scheme has also been set afoot for having a Provincial Apex Bank in Bengal, whereas also in Bihar and Orissa, the primary societies are at present financed by Central Banks at district or taluka hand-quarters. Recently this project has been alandoned in favour of a Provincial Federation of Central Banks. In the United Provinces primary societies are fluenced on the same system, and there, too, the starting of a Provincial Apex Bank under which Central Banks will be federated is under contemplation. The banks or through the guaranteeing of unions though sooner or later it, too, will have an Apex Bank has Bank, no definite proposal for the establish-been started in the Central Provinces to form ment of such Bank has yet matured.

The Working of Central Banks.-The following statement shows the number and the constitution of the Central Banks in the country up to the end of the year 1915-16 :-

		Number		Number of Members.		1
Province	Provinces,		Indivi- duals,	Societies.	Working Capital.	Reserve Fund.
					Rs.	Rs.
Madras		. 11	960	608	70,70,062	1,24,600
Bombay :.		. 4	831	160	3,23,831	5,035
Bengal		. 30	3,455	1,931	46,49,377	1,11,901
Behar and Orissa	· · ·	. 19	850	1,066	16,88,597	44,278
United Provinces		. 57	5,013	2,070	64,39,838	4,80,909
Punjab	,	. 42	1,923	1,485	55,34,404	1,87,037
Burma		. 3	281	380	7,52,048	9,841
Central Provinces		. 20	16,771	2,330	36,20,726	55,601
Assam		. 10	642	112	3,20,275	14,010.
Ajmer		. 5	506	332	8,74,047	20,658
Mysore		. 17	535	256	8,05,004	12,022
Baroda		3	78	168	2,34,408	2,184
	Тотаь .	239	32,535	11,787	3,23,21,617	10,20,505

print the factor of Courts De-Left to Enforce Int the existing Banks may be classified as Employed to Excite the existing Banks may be classified as Employed to Excite the factor of the including to Court the factor of the Excited to Indichment the Excited to Excited to Indichment the Excited to Excited the Excited to Excited the Excited th There exists a few a finited at the does on exactly the same feeting as individuals to feeting at the little and the project of the project o Cities and in lightness as their memions and grown to benefits appread represent the Roll of District. The number of sources are considered in the various Provinces falls. fare of the films not expected accoupled space are although for the contract of the films of the

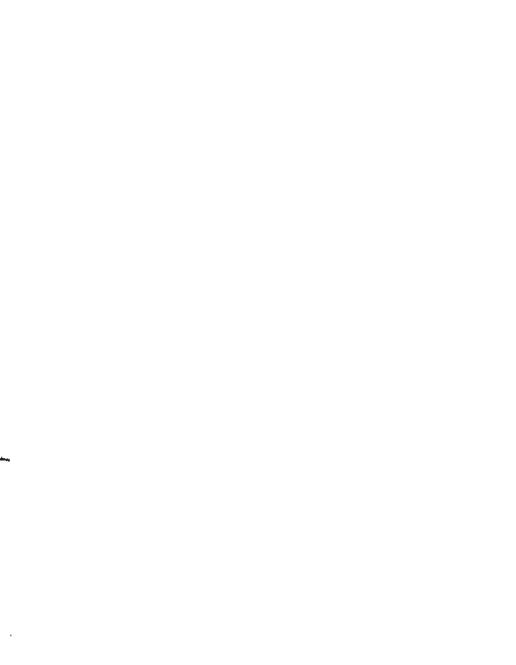
	described alone the in the peter activate which include
Proceeding	Pro. Captan litt Pero
Madge	Links links Sure Central Central trees.
Branch	Estate Unions vincial Total,
Ediaran i Orica United Provinces	
Control Provinces	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Aimer Marie	1 1 1 1 1 1 1 1 1 1
distribute so	$\frac{1}{2} \left(\begin{array}{c c} 3 & 1 & g & 125 \\ 0 & g & g \end{array} \right) = \frac{107}{100}$
TOTAL	$\frac{1}{5}$ $\frac{1}{23}$ $\frac{12}{3}$ $\frac{12}{3}$ $\frac{12}{3}$ $\frac{12}{3}$
funds of Central Banks are to i	The func, fearantee of loans to which the which the which the state of loans to
Danilla are not limber I'vy ca	pital which the of loans to

Functions of Central Banks:—The func- Engrantee of tons to primary societies, and first of Societies and are to balance the which do not undertake banking societies, and the further are not limited to the provision. It may be mentioned that in most of the provision and societies and to societies to the societies is done by the include the vinces the work of organising and dooking from a capital feel central Banks of societies, the societies is done by the Recistar with a supervision and some preform the functions the high of switching and dooking from a capital work, they perform the functions the high of switching and dooking after also of substants, they perform the functions the high of switching when a few honorary also of substants and in some providers by the Registrate churching work now done they of the Central Bank verylops the central control of the switching and even they of the Central Bank verylops. Central Bank its Englisher Churching work now done by as stated above, supervise themselves or the societies, the assimilies to be paid ing and in some previous workers and owing to the increase in the number of oscieties and the societies, the assimilies to be paid ing and in some previous workers as standing. The cope with the work work done by a specially appealed endes their working. The cope with the work with the limited stanf the lines of similar institute only increase the societies of the cope with the work with the limited stanf the lines of similar institute only increase reconnel necessary for its successful working Apex Bank, it may be possible to have an at their disposal. Usually the Central Bank! Irelan I, and if the District Banks and Unions Is only possible for the whole of a district, as the are affiliated to a Co-operative provide a fine the control working Apex Bank, it may be presented as a smaller area, I operation of the may be district to secure in a smaller area, I operation of the provide the existence of the country we branches in the Operative Provincial adukation of the Provincial Backletes for Central Banks and control of such boiles has been facilitated by develop into a truly coroparative Banks with provincial controlling agency co-operative Societies were appearance of this Act. Provious to the province of the act of the province of the control of the c at their disposal. Usually the Central Bank! Ireland, and if the District Banks and Unions is only possible for the whole of a district, as they are admitated to a Co-operative Provincial mass be considered to be considered to be considered to be considered. are unions which may be described as federations | Central Institute to locus the efforts of societies which are maintained for supervision, operative workers and to carry on propagation of and to carry on propagations of an efforts of the combined or not with the assessment or and twork has lately been projected in Bombay.

Other forms of Co-operation .- After the | 8, in Barola 11, and in Mysor 21. pairing of the new Co-operative Belities Act the application of co-operation to purpose either than end to was graiff extended, but as ret there has been to pureral demand for productive and distributive co-op-mitter scription as is noticable in England and element. At the end of the year 1915-16 there were very few store wortefer in the country, the Modras Prodency claiming 13, of these with a no micr hip of 4,411 and a working capital of 18+, 2,53,535. There are 4 stores in 18 har and Oriso, 11 in 120nday, 2 in Bargala 21 in Mysore, 4 in Bergal and 8 in United Provinces. In some Provinces (fort, have been made to revive the ancient handleratts of the country and cottage inductive by organising Co-operative Sof that for the workers. Many of these gorieties merely provide chesp credit, but in some placethey undertake the supply of ray material and they undertage the supply of my maxima and the sale of manufactured goods. An important industry which flourished in India before the introduction of malilierry was the Hand-toom Weaving Industry, and efforts have been made to review it by the formation of productive co-op rative societies of handloom neavers Most of the Weavers' Societies are not merely Most of the Weavin' Societies are not merely credit societies, but undertake the purchase of good yarn for numbers, and in some cases have store branches to sell the cloth produced by them. They have also been instrumental, prominently in Bombay, the United Provinces, and the Central Provinces, in introducing the proved home and methods amongst the consecutive weaving classes. The number of these proved from and memora amongst the emis-versative weaving classes. The number of these societies in Pembay is 31, in Bengal 17 in Madras 1, in the United Provinces 2, (exclu-ding a large number of weavers' credit societies in the Central Provinces 23, in Burma 4, in Assam 4, in the Punjab 12, in Behar and Orissa

Other industrial societies are there for "gnoless" or militure, derre, harri 112 brass workers in the Central Provinces, "Gummurs" and "duors" in Homlay and the Pholib. Requessare workers, carpairry, wood carvers, black-anlihe and rathers. That are also building modelets in Madra, raminedard societies in Denaula, raminedard societies in Penaula, raminedard societies in Penaula, raminedard societies in constitute with a sprain with a constitute viting expediment in constitute viting expediment in constitute viting expediment. Workshop at Barelliy in the United Provinces. These Hop-logs Societies have been storted in Denberg. Hon-log Societies have been started in Foundary and a Housing Association has been founded and a Housing Association has been founded to encourage the formation of more such soler ties. There are eight Building Societies in Madras and a few more in Mysore. There are Dairy Societies in the Bonnay-Presidency, 2 in Blury, 2 in the Central Provinces, one in Engal and 2 in the United Provinces, Cooperative Societies that the United Provinces, Cooperative Societies for the Iduit age of agricultural professions. In the United Provinces, Cooperative Sort sur-for the Joint sair of agricultural produce are becoming repriar as Cooperative Credit thrives and there has been in the last few years, a substantial increase in the number of sale selection especially in Bombay. In Burna-there are 16 Societies for the Joint sair of gady, Cooperative Creamer's and "gine" projecting accides have been started in some place. It is alvon ploneerin the matter of co-operative insurance, and has 200 Calcutta Insurance Societies with a memberhip of 5,350. Ten Cattle Insurance Societies have also been started in Coorg, one in Bengal and five in the United Provinces. The total number of non-endisocieties, whether agricultural or non-agricul-tural, is only 617. The following table exhibits the progress of other forms of co-operation in the different parts of the country;—

Typo of Society.	Madras.	Bemlay.	Pengal	Bihar and Orina	United Pro-	Panjab,	Durma.	Central	Aseam.	COOTE.	Afmer.	Mrsom	Barneta	TOTAL
Purchase or Non-Agricul- Pu chase turn and Sale Apricultural.	13	38 21	513	15	6	17	::	::	::		33 5	3 .:	::	127
Production Non-Agri- cultural Agricultural,	1	1 2	ï	::	::	::	i	żź				i	::	50
Production and N n-Agri- cultural cultural Agricultural.	::	1 7	20	2	1 7	::	iš	2		ï	1 0	.:2	::	33 45
Others Non-Agri- cultural Agricultural.	0	3	1	::	::	••	• • • • • • • • • • • • • • • • • • • •	1	::	::	·;	.:	::	14
GRAND TOTAL	31	73	83	17	15	17	27		<i>.</i> .	1	54	o	•••	205



Systematic management of the lands of Central, who are the real managers are not lone Systematic management of the lands of Central, who are the real managers are not lone Systematics it is anticipated that in future the late members. This, it may be arged, it constitution arising out of a fullum of rains will trary to a fundamental gelocitie of co-oper by satisfactorily met. In 1913 and the follow-laten that there should be internal managements practically the whole of the country ment of the basiness, but it can recarrily to was subjected to a braiking crisis of conditionable belief in a country where there are only a magnitude, but a marked feature of this crids few smann the total williary population able was a tendency to withiraw deposits from to keep their own accounts much less to non-operative banks. The outbreak of the truchat co-operation provides a higher type of War brought another set of influences into play education, but when the ground work itself is and there was a temporary tendency to withdraw lacking it is interestable to belief on the superand there was a temporary ten leavy to withdraw deposits and a temporary cossition of new deposits. The disturbance was not serious except in two or three provinces and by the end of the year 1011-15 the situation became practically normal. In two of the Provinces where the situation caused some anxi-ty owing to the existion of fresh deposits in Carrai Bunks, the Government sunctioned advances to the extent of Rs. 5,00,000 to Central Societies to be utilized in case of argent forces to agri-cultural societies or to meet with rawals of espoilts. Of the sum advanced, namely, Rs. 55,000, before the close of the year Rs. 1,12,000 000 r.pld in one province, and Re. 20,000 at the Re. 32,000 at the state of Re. 32,000 appropriate the state of Re. 32,000 approved in another. On to was's, the refere, the movement appears to are stool the test of the War much better than ught have been expected. While therefore that have been expected. While therefore he co-operative movement has as a whole cen the come of little or no anxiety to the

There are villages where no schools exist and where there is hardly one individual who can read and write tolerably well. In most villages a few interact people can be found and the their that the form the most villages as few interact people can be found and the their that they form the most villages. t is these that form the nuclei of co-operative ociciles. Their ignorance in other matters is oftenso abysemal that it is hardly possible to nstil into their minds even elementary notions of co-operation. Happily there are villages which are better of, where a decent percentage of the population is able to read and write and where one finds a dozen intilligent men

lacking it is impossible to build up the superstructure.

Social Reform .- Co-operation some places, etimulated the desire for elecation and members of rural societies have been known even at advanced some to receive the their scan at advanced sympto freche the ciements of education to enable them to get their signitures on the society's papers, and to take a lively interest in the internal sork of their societies. There are a few cases where a society has set in from cases where a society has set its face against drankenness, expelled members notorious for their intem-penate bablits and has in other ways worked for penute habits and fine in other ways worked for a better morality by including on a high stands and of life. Societies have occasionally condemned excessive and even heavy expenditure on marriages, and have thus inducedly trained members to the habit of thruit. Liquidation of old delts again has been rendered possible to a great extent and many an articular to the habit of thruit. the chart of little or no anxiety to the cultural who was formerly in a state of chronicability as well as to the State Cooperative indebtedness has been therefored it his debte includes in several provinces have born histories in several provinces have born histories in several provinces have born and freed from the necessity of incurring new most of their ability. In the Pariphs a War is now possible for the agricultural to borlosphial is milarianed by Cooperative Soficials in milarianed by Cooperative Soficials in milarianed by Cooperative Soficials of their provinces also similar contributed largely to milary funds and charities. In two or here provinces also similar contributed largely to from the village money-budges, are even now all classes of Societies readily sub-cribed to saving temestres from an unnecessary large absorphibate to the War Loan write of at least 20 laking from an unnecessary large absorphibate to the War Loan write drably and the Sowker is, in most place and the United Provinces.

Defective Education—It is the expenses of those groto have to deal with the prepalsation and management of rural societies that the sad state of education among the agricultural population is not only a real landrance to the development of co-operation cut seriously endangers its very emetance been the untilling of a sense of corporation to seriously endangers its very emetance but the installance of a sense of corporation to seriously endangers its very emetance but the untilling of a sense of corporation and management of co-operation but seriously endangers its very emetance but the untilling of a sense of corporation and controlled and c most important achievement of cooperative most important achievement of cooperative tables then the instilling of a sense of communal life—a feeling of "all for each rot and for all" amongst the members of a cooperative body. If these signs become as common as the com common as they are now rare, and it over and above the economic benefits activeted by it, co-operation succeeds in its true aim—the building up of the character of the propriand the promotion of their welfare by the incutestion of the ideas of thrift and the principles of sufficient and above at her thories. of the population is able to read and write ples of self-belp, and, above all, by should where one finds a dozen intilligent men the medom of mutual help and brothering who can understand the elements of co-operation. In a large number of societies, as has life conductive to more quickened national need pointed out previously, the secretaries progress will not be far on.

The Women's Medical Service for India.

This Service which was recently inaugurated are deputed. After this period of mander the auspices of the late Lady Har- has been satisfactorily parsed their appoints the Women of India, femerally known as the special institutional. The services of Members of the Dunterin's Funds and is adminished for whole or part of the pay. ferrd by the Central Committee of that I'm d. The Gotetiment of India has so far allotted the sum of £10,000 per annum towards its mainsum of 410,000 per annum towards at main-tenance. The present sanctioned cadre is twenty-five first class medical women, of which twenty-nee are the medical women, of which makes five is for the purpose of forming a leave receive. Recruitment of the service is made (a) in India by a medical sub-committee made (a) in india by a medical sub-committee of the Central Committee which includes the Director-General, Indian Medical Service, the Honorary Secretary to the Central Committee, and a firt-class medical woman; (b) in Lingland, by a sub-committee, consisting of a medical man and two medical women convergant with conditions in India, to be nominated by the Home Committee of the Counters of Dufferin's Fund. These sub-committees perform the duties of a medical board examining candidates for physical fines, and for return to duty after invaliding

The Central Committee determines what proportions of the members of the Service is to proportions of the members of the Service is to be recruited in England and in India respec-tively. In the original constitution of the Service, duly qualified medical women who are in the service of, or who have rendered approved service to, the Counters of Dufferin's Fund, are to have the first claim to appointment, and thereafter special consideration is to be paid to the claim; of candidates who have qualified In local institutions and of those who are natives

Qualifications.—The qualifications are that the candidate must be (a) a British Eubject resident in the United Kingdom or in a British Colony or in British India, or a person resident in any territory of any Native Prince a Driven Colony or in British India, or a person resident in any territory of any Native Prince or Chief under the suzerainty of Ills Majests or Chief under the suzermity of his Majesty exercised through the Governor-General of Mide or through any Governor or other to the Governor-General twenty-four and thirty at entry. (c) She meet of India. (b) Must be between the ages of twenty-four and thirty at entry. (c) She must be a first-class Medical Woman, i.e., be must possess a medical qualification registerable in the United Kingdom under the Medical Act, or Indian or Colonial qualification other the United Einguom under the Siegical Act, or an Indian or Colonial qualification other than L.M.C.S. or Licentiate of a Medical College. than L.M.d.S. or Licentiate of a Medical College. Lady appointed in England receives a sum of In India registerable in the United Kingdom 270 to cover her passage and incidental expenses, There are also allowances to cover the content of fourness by rall and road. apply at the original constitution of the Service to medical women in charge of hospitals who in the opinion of the Central Committee, are of in the opinion of the Central Committee, are of proved experience and ability. (d) The can-member contributing monthly thereto five per character. But the Central Committee research and amount, and each subscriber's account. character. But the Central Committee re-serves the Power to promote to the Bervice ladies not possessing the above qualification, but who have shown marked capacity. Membut who have shown marked capacity. Members of the Service are required to engage for duty anywhere in India or Burma. Those recruited in England serve for six months, and those recruited in India for three months in

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Pay.—The rates of pay are as follows:— During Probation Rs 350 per month: there-after Rs, 400 up to the end of the 4th year; Rs. 45c from the 5th to the 7th year; Rs. 500 from the 10th year; Rs. 500 Rs. 550 Rs. 10th year; Rs. 500 Rs. 550 Rs. 5 confirmed in the 400 rupee grade unless she has passed an examination in such vernacular as paracu an examination in such vernacular as the Provincial Committee shall prescribe, within no grar of her appointment. I. addition suitable quarters are provided free of the provided free of the provided free of the provincial states. audition suitable quarters are province trept; or a house rept allowance to be determined by the Provincial Committee may be

Members of the Service are permitted to engage in private practice provided it does not interfere with their official duties, and the Provincial Committee has the Power to determine whether such duties are thus interfered Frovincial Committee has the power to deter-mine whether such duties are thus interfered with. Except in truy special cases retitement is compulsory at the age of lorty-eight. A member whose appointment is not confirmed, or who is dismissed, is granted an allowance sumcient to pay her passage to England.

Leave Rules.—(a) Casual Leave, which is occasional leave on full jeay for a few days and is not supposed to interrupt dury. (b) Privilege Leave, which is leave on full pay and is meant to provide a month's holiday in the is meant to provide a mount is monday in the year. If it cannot be granted during the year, it can be accumulated up to a limit of three than the second with it can be accumulated up to a limit of three months, (c) Furlough, at the rate of two months for each year of duty, the latter including privilege leave and cavual leave. First furlough is not granted till after four years of latty, and more than eight months furlough is not granted at one time. Study leave may also be granted not exceeding three months is not granted at one time. Or one the sale be granted not exceeding three months at a time and up to nine months during the months at a time and up to nine months during me whole service. (d) Sick leave, up to a maximum of two years. (e) Extmordinary leave at any when at the discretion of the Central Committee. When on furlough or elck Pave the allowances are half the average monthly pay of the rix months presence on duty immediately preceding the taking of the leave. There are no allowances during extraordinary leave. A lady appointed in England receives a sum of

There is also to be a Provident Fund, each an equal amount, and each subscriber's account being granted interest on the amount standing to credit at the rate of 4 per cent, per annum, or at such rate as the Central Committee can invest without risk to the funds of the Asso-

recruited in England serve for six months, and those recruited in India for three months, in a resign (except on account of ill-health) before the province to which they completing flyp years' service for in the event those recruited in India for three months, in a resign (except on account of ill-health) before General Hospital of the Province to which they completing five years, Ervice, or in the event

Indy Hardinge Medical College,—On Tebruary 17, 1919, a medical college for women was open the Imperial Dellil. The seletor for this College was Initiated by the Inte Lady Hatdince. She took a very keen interest in its school for nurses and milarives. It is intentity development and it is due to her enterts that the to train in lianguist as nurses, who will be availaged a part of the 22 lakks needed for its come able for nursing in refer to families as nell replaced may obtained in authoritytions from Indian Princes and Chiefe,

The object of the institution is the training of Indian girls of good class to become doctors. The College and hospital will be staffed entirely by women of good professional requirements and will be chosen from the Women's Medical

Service members.

Stockets found the confer with required to you of Physics and Chemistry, Miss A. S. 2000, have passed either the Intermediate Arts or B.A., B.S., CAlerdered., Preference of Riolegy and Science Examination of one of the Iodian Universities, The College curriculum will include the Natural Tripos, Cambridge), Saprinton-coarses in Chemistry, Riolegy and Physics, dent of Nursing, Miss Mackensie, Tuttion University graduates from England have been began in September.

THE RESERVE of dismissal. On retinement after approxist appointed as Profesers of these antifects, service the sum which has accumulated to the certain number of reholarships will be awar credit of the subwriter is handed over to less annually to describe and lents. certain number of reholarships will be awarded annually to describe atulents.

The Lady Hardinge Training School for Nurses.—Attached to the Harding which is desleyed to held 164 leds will be a training

The following staff text teen selected: Princip pal and Professor of Medicine, Dr. K. A. Platt. dian girls of good class to become doctors, then to good class to become doctors, then to good professional requirements of women of good professional requirements and will be chosen from the Women's Medical L.E.C.P. Professor of Pathology, Miss Holton, H.B., M.E.C.F., rivice members.

Students joining the college will be required to soo of Physics and thempirer, Miss Learn Professor of Physics and thempirer, Miss A. M. Bain, Calcutta, M.E.C.P., and t.E.C.P. Professor of Physics and thempirer, Miss A. M. Bain, M.E.C.P. and thempirer, Miss A. M. Bain, M.E.C.P. and thempirer, and thempirers and thempirers and thempirers of blockers and

THE COUNTESS OF DUFFERIN'S FUND.

The National Association for supplying female, thought that if an association could be formed inedical aid to the women of India at once one of which should set before itself this one single the most cilicient as it is among the most useful. and benevolent institutions in india, is the out-Ava during the time of her husband's Vice of its alm by keeping clear of all controversal toyalty. The late Queen Victoria drew the subjects and by working in a strictly unsectanticulum of the Countrey, on the departure rian spirit, then it might become national, and of the latter for India, to the question of supposition of the Countrey, or the departure ought to command the support and symiathy and asked her to take a practical interest is the subject. As the result of her enquiries she found that, though certain great edorts see found that, though certain great efforts were being made in a few places to provide female attendance in nospitals, training schools, and dispensive for women, and although missionary effort had done much, and had indeed for many years been sending out ploneers into the field, yet taking India as a whole, its women, owing to the "pundah" system, were undoubtedly githout that medical aid which Fundam women were accustomed to which European women were accustomed to consider as absolutely necessary. In the Counters' own words written in 1880 after the movement had been started: "I found that even in cases where nature, if left to herselt, administrative purposes, but linked with the would be the best doctor, the ignorant practice central committee, were formed in most parts of the so-called midwife led to infinite missories, and the work may be said to thief, which might often be characterised as have started from August 1855. The objects about the country of the co of the fo-called midwile ied to minite missor the country, and the work may be earlied, which might often be characterised as have started from August 1855. The objects abominably cruel. It seemed to me, then, of the Association are thus set-forth in its that if only the people of India could be made, publications.—I. Medical tuition, including the to realise that their women have to bear more, teaching and training in India of women as than their necessary share of human suffering, doctors, hospital assistants, nurses, and midmal that it rests with the men of this country wives. II. Medical relief, including the establing the country the new of this patient in the sum of the proposition of dis-

object, to bring medical knowledge and medical which to the women of India, and which should of every one in the country who has women dependent upon him,"

Initiation of the Scheme-Lady Dulletin's plans were warmly received by the public all over India. The scheme was drawn out and published in the different dialects. The secondation was named "The National Association for Supplying Temale Medical Aid to the Women of India," and the money for its support, as it was received, was credited to the "Counters of Dufferin's Fund." The affairs of the Association were monared by a central of the Association were managed by a central committee of which the Countess of Duffern during her stay in India was President. Branch Associations, each independent for financial and and that it rests with the men of this country wives. II. Medical relief, including the establishing under from the word of their nationalities to pulsaries and inspirals for the treatment of surely the men would put their shoulders to the wheel and would determine that wives, the opening of temale wards under women and children; the opening of temale wards under women superintendents in the monthers and sisters, and daughters dependent existing hospitals and dispensaries; the property of the property of

funds or endowments are forthcoming clan-in-III. The supply of trained female nurses and (Lond). midwives for women, and nurses for children in hospitals and private houses.

Within four years from its inception there were in existence twelve hospitals for women officered by women, and all more or less closely connected with the Association. From the subscriptions collected there was enough to sct aside a substantial sum as an endowment fund; and also six medical, twelve nursing and two hospital assistant scholarships had

Growth of Scheme.—The first regular training school in India for the instruction of ing section in mode for the instruction of native pupils in medical and surpleal nursing, and in midwifery was established in 1886 by the Bombay Branch of the Association in con-nection with the Cama Rospital in Bombay.

forthcoming clan-in-charge. Is Miss A. M. Benson, M.D.,

There are thirteen Provincial Branches work. ing under the central committee; and attached in some manner, or amulated to the provinin some manner, or amunitar to the provin-cial branches, there are about one hundred and forty local and District Associations or Committees engaged in furthering the work of the Association. There are one hundred and the Association. There are one numbered and fifty-eight hospitals, wards, or dispensaries of various kinds for the medical relief of close on one and a quarter million women and elidieren; and the value of the institutions engaged in the work of the Association was estimated at over 50 lakin of rupces.

Annual Report. The Report of the Association is published annually, and can be the Bombay Branch of the Association in conuction with the Cama Respective for the Bombay.

This is a civil Institution under Government of all castes and denominations. In the country for women and denominations. In Hospital and the Jaffer Spiciman Dispensary for women and children. The present physicist Lt.-Col. Sir James Roberts, I.N.S. clation is published annually, and can be obtained either from the Superintendent of Government Printing, Calcutta, or from the classical background the price below one pipe.

NURSING.

NUTSING Bodies.—The Honorary Secretary of the Calcutta Norsing Association is Mr. In A. B. Reynolds, the Presidency General Hospital. The address of the Mayo Hospital Nursing Association is in Strand Road. In Maderns there is the General Hospital, with a statio of 22 nurses, the Government Maternity Rilipanis, the Royappeta Gosha Hospital at Ophthalmic Hospital.

Whilst India cannot show the complete. Bombay Presidency.—The Bombay Prechalm of efficiently-nursed hospitals which sidency was amongst the first in India to exists in England, there has been a great devisite of the India to skilled nursing of recent years, hespital work. The first in India to length Madras, and Bombay Presidency are hespital work. The first steps were taken on owns are well nursed, and bombay Presidency and the Indiatates of the Indiatates of the Indiatates. George's Hospital, Bombay Wer taken on owns are well nursed, and where large private; together with a small staff of nurses for private as This are maintained, available to the general case. This was followed by a similar move up trained nurses, both a yearly supply of Unimately, the Government had down a dress and those of outside institutions which they would given to the final and aftermands and those of outside institutions which they would give to the final and Indian, is being steadily increased. In Bombay the work grew, it would not be such institutions the ortal case of the Bombay Presidency and taked from private a sum equal to that the establishment of the Bombay Presidency in the work grew, the contribute a sum equal to that the establishment of the Bombay Presidency in the work grew, the contribute of such institutions of the case of the private of the case of the contribute of the contribute of the contribute of the case of th

St. George's Hospital Nursing Accelation. Secretary: D. W. William, st. George's

J. J. Hoystal Nor ing Association, Secretary: A. G. Gray, Jame the Jilliand Hospital, Bombay,

Gokalica Telpal Hospital Number Acce. ciation, Econology: Raldingular Carrier

Carra Horgital Number Association. Hon. Scentary: H. Machachter, Eq. Address Carra Herrital, Erminar Eq.

Sassoon Hospital Nursing Arsociation. Address—Sassoon Hospital, Poona.

Ahmedabad and Lely Memorial Association. Address—Civil Surgeon, Ahmedabad.

After further experience it was felt that it is underlable to have a considerable number of detached and independent nursing associations, training and certifying nurses, without any common standard of entrance, examination, or certification. It was therefore decided to establish the Bombay Presidency Nursing Association which came into existence in the year 1910. This is an Association formed partly of representatives of all affiliated associations and partly of direct representatives of Government, the Surgeon-General with the Government of Rombay always being the chairman. It is inanced partly from the product of endowments and partly from contributions from the Government of India. If subsequently further funds are needed they are to be provided by contributions from the affiliated

The principle on which the Bombay Presiden-Y-Nursing Association works is a central system of examination, certification, repl-litation and control. It is now the only nursing, examining, registering and certifying body in the Bombay Presidency. At the same time, the local associations retain entire charge of the local funds excepting Provident funds which have been transferred to the Central fund, and also entire control of the nurses when they are in their employment. In a sentence, the principle is central examination and certification and local control. By degrees it is hoped to be able to establish the principle that none but nurses registered under or certified by this association shall be employed in any Government institution.

The Association commenced its operations on the 1st April 1011. The institutions recognized under the by-laws for the training of nonzes at present are—St. George's Hospital, J. J. Hospital, Canus and Allbiers Hospitals in Bombay, the Civil Hospital, Karachi, the H. and P. Civil Hospital, Ahmadabad, and the Sassoon Hospital in Poona, and the following for the training of midwives:—The Capus and Allbiers Hospital in St. George's Hospital and the Bai Motilbai Hospital in Bombay, and the Sassoon Hospital in Poona.

Provision for retiring allowances is made for all members on the basis of a Provident und and a Nursing Reserve has been established for employment in emergencies such as war, pestilence or public danger or calamity.

Address—The Secretary, Bombay Presidency Nursing Association, c/o Greaves Cotton & Co., Bombay.

rady Minto Nursing Service.—In 1905, there was one organisation existing in the Pundab and the United Provinces called the Up-Country Nursing Association for Europeans in India, which was established in 1892. This Association carried out very useful work in certain parts of India, but was hampered by want of funds. For this reason it was found impossible to extend their organization and the Colaba.

urgent need for a larger number of trained nurses at charges within the reach of all classes was much required. The late Lady Curzon worked energetically to provide an enlarged nursing organization, but principally for financial reasons, was mable before leaving India to bring her scheme to fruition. The Home Committee of the committee Committee of the existing Association recognizing the need of expansion approached Lady Minto before she left England in 1995 and begged her assistance and co-operation. After much consideration and discussion with the Government of India, Lieutenant-Governors and Commissioners of Provinces, the present Association was established. In 1000 an appeal was made by Lady Minto to the public both in England and India to start an endowment fund. appeal was most generously responded to. Each year the endowment fund has gradually increased, and with the assistance of a Government grant, homes for nurses have been established in seven Provinces of India and Burma, of which the original Association formed the of which the original Association formed the nucleus. To avoid confusion with other Associations, the enlarged organisation, by request of the Home Committee, was named "Lady Minto's Indian Nursing Association" carrying on the same work as before, namely, that of selecting suitably trained nurses in England, and making the necessary arrangements for their transfer to India. Hon. Serretary, Lieut-Col. Sir J.B. Roberts, C.J.E., I.M.S., Simia, Hon. Secretary, Home Branch. Lieut-Col. Sir Warren Crooke-Lawless, Kilcrone, Cloyne, Co. Cork. Co. Cork.

Nurses' Organizations.—The Trained Nurses' Association of India and the Association of Nursing Superintendents of India are not Associations to employ or to supply nurses, but are organizations with a membership wholly of nurses with the avowed objects of improving and unifying nursing education, promoting capril de corps among nurses, and upholding the dignity and honour of the nursing profession. The Associations have a membership of 202-including nurses trained in ten or more different countries, Europeans, Americans, New Zeai-anders, Australians and Indians. The Association of Superintendents was started in 1905 as the Association of Nursing Superintendents of the United Provinces and the Punjab, but by the next year its membership had spread over the country to such an extent that the name was changed to include the whole of India. The Trained Nurses' Association was started in 1908, and a monthly Journal of Nursing began to be published by the two Associations in February, 1910. The Associations have since become affulated with the International Council of Nurses.

Below are given names of Officers of the

Trained Nurses' Association of India.

President. Miss Bartleet, Peach Cottage, Coonoor. Hon. Secretary and Treasurer, Miss Thacker, Cama Hospital, Bombay.

Association of Nursing Superintendents.

President, Miss Dent, Madras; Hon. Secretary and Treasurer, Mrs. Blackaby, South Ville, Collaba

Indians Abroad.

The Indian is naturable assiste from emigra- 'according to the rice of a religion permitting the tounderess of themsands of Indians resident t ether leads as labourers, shopkerpers to rolessional men. Their total number relatively to the population of the Indian Hingbe tery er all being conething under two million a He II, I wever, it is considerable; and it "quire an extrinsic importance from the vial and political frames involved in the settleent of Italians, either as infentured infourers i Coun Colonies, or as free residents in reli-Myrning countries.

The right to migrates—From the Impe-al startipoint the case of Indian inforation the soft-roverning Colonies is much the tre imperiant, and for a time the prolems atteins therefrom became acute. There ere two centres of difficulty-South Africa h I British Columbia. In each country the tuation involved particular local problems fextume dimently. But before paring to a licurion of them it is necessary to refer to ie larger question of the right of migration lithin the Empire. The intense feeling aroused i India by the disabilities suffered by Indians t the two countries named was primarily due the folici that Indians were being denied to common rights of Bittleh citizenship. lithout attempting to define the term "British threnship," which is not so easily susceptible ie Empire does not appear to be the common glit of His Majorty's subjects. The laws of ie Dominion of Canada and the Commonwealth f Australia cenfer powers of exclusion of oul-i-be immigrants hailing from any part of to Empire. Three land have been enforced cainst Racilelmon on various grounds. The round of exclusion is usually economic, and . Is on that ground that the Colonial objection t is unfortunately inevitable that the problem sumes in the popular mind a racial com-lexion. But in actual experience it is the lash of economic interests and the possible olitical difficulties involved in the settlement f Indians in large numbers in the self-governig Colonies which the statesmen of the Empire ave to take into account.

South Africa the trouble gathered ound the disabilities of Indians aircady settled here. The question of immigration restric-ions, though important, held a less prominent lace in the agitation. The most acute point I the controversy was the annual £ 3 head tax 1 Natal, Restrictions on the migration of as another sore point. The requirement to ake out trading licenses was also felt to be a exatious and invidious distinction between adian and European traders. While the ontroversy was at its height, an Act was assor in the Union Parliament, restricting atry into South Africa to the wife or child of lawful immigrant or resident who was the ife or child of a monogamous marriage. In care brought before the courts it was decided

The Helica is better a street the first street and polygomous marriages could not be admitted, one turnitries of thousands of Indians respired. The Fasters of the agitation in South Africa adopted partie resistance incides, which brought large boiltes of Indian workmen in Natal into conflict with the police. The situation became scute, and a strong demand arose in India for the appointment of a flovernment Commission to enquire into the whole question. The Union Government appointed a Commisslop, and invited the Covernment of India to send a representative. Sir Benjamin Robertson. Chief Commissioner of the Central Provinces. was selected. The Commission reported on the whole favourably to the Indians,

The Indians' Relief Act, 1911, gives effect to those five of the 14 p commendations made by the Commission which necessitated legislation. First by the dil tion of extain words from the Immigrants' Regulation Act, 1918, an Indian, married in accordance with the rites of a pligion by the tenets when of polygamy is meanised, is enabled to introduce into the Union one wife as well as her minor children by him, provided the Indian has in the Union no other wife. Another recommendation of the commission to which effect is given is as follows: An Indian man and an Indian woman may, on a joint application to a magistrate or marriage officer, and on complying with certain prescribed formalities, obtain registration or such a union I destrition as may be imposed, it must suffer b tweet them as is de fucto a monogamous of erve that unrestricted migration within union, and such registration will constitute a will and binding marriage b tween them with all the incidents then of, and will be recognised In the Union as such, notwithstanding that, by the tenets of the religion which they profess, polygamous marring a are recognised.

The third recommendation of the Commission to which effect is given is a provision for the appointment of Indian priests as marriage officers > unrestricted immigration from India operates, , under the marriage land of the several provinces of the Union. So far no Cape Colony in concerned this had been possible, as regards he bloham-medan religion, under Act No. 1 of 1800, while Law No. 10 of 1801 of Natal contained a similar movision. Under the new Act any Indian priest may be appointed a marriage officer for the purpose of the marriage taws of any province of the Union, and a marriage solemnised by him will, if solemnised in accordance with the rites and formularies of his religion and without any prescribed statutory words signifying the binding nature of the ceremony, be recognised; valid.

Another provision provides for the repeal that section of the Natal Indian Immigration ndians from one State of the Union to another | Laura which imposed an annual licence of £3 on Indians who, introduced as indentured labourers, failed to reindenture at the termination of their contracts.

In British Columbia, the trouble over Indian immigration came to a head in the early part of 1914, when a ship-load of Indians was despatched direct from the Far East to Vancouver. It was held up in the harbour there for several weeks. The passengers were nat the only wife of a marriage selemnised not allowed to land. An appeal to the Canadian couris resulted in the rejection of their claim, and eventually they were shipped back to India. The arrival of the Komagata Maru in Calcutta on September 20, 1914, was the occasion of a most lamentable incident. Antilipating an attempt to organise a political lemonstration, the authorities provided special rains to convey the returned immigrants to heir homes in the Punjab, and had taken lower, under Ordinance V of 1914, to require hem to do so; some sixty men immediately proceeded to their homes, but the balance under the leader, Gurdit Singh, endeavoured to force their way to Calcutta. They were turned back by the Military, and whist arrangements were being made for a second special train, opened fire on the Police and Officials. The Military dispersed the immigrants by fire, and the majority were atterwards arrested. Sergt. Eastwood, Calcutta Police, and Mr. Lemas, of the E. B. S. Railway, were killed; the Punjab Police had one killed, as well as two onlookers. The Government of India appointed a comission under the Presidency of Sir William 20 to investigate the matter and it took

There are some 4,000 Indians already settled in British Columbia, chiefly Sikhs. They work as agricultural labourers, in factories and lumber yards, and also on the rollways. The desire amonest them to bring their wives and families out from India points to the fact that they are fairly presperous and find the conditions of life in the Colony agreeable. The attitude of the Colonial authorities towards them is governed by the general objection to Asiatic immigration. It is felt that the unrestricted entry of Asiatics would threaten the existence of British Columbia as a "White man's country." The immigration of Japanese and Chineso is regulated by special treaties with their Governments. The number of Japanese is limited to a few hundreds annually. Chinese immigrants pay a head tax of 500 dollars on entry.

in Calcutta and the Punjab.

An Exhigiernted danger.—Making every allowance for the Colonial standpoint, those acquainted with the internal condition of India cannot but feel that the fears that the self-governing colonics may be deluged by Indian immigration are preatly exergerated. The total number of Indians resident out of India is under two millions, and of these the majority are to be found in tropical countries. Ceylon alone has 000,000 of them. There is a quarter of a million in Mauritius, about another quarter of a million in Britse Guinans and the West Indies, and 250,000 in the Straits Settlements and Malay States. Of the self-governing Colonies South Africa has by far the largest share, her Indian population being a little under 160,000, Natal alone accounting for 133,000. But this is not the result of ordinary migration. The nucleus of the South African Indian community was formed artificially by Natal herself. Until 1911, when it was stopped by the Government of India, there was for many years a stendy stream of indentured immigration into Natal to supply labour to the sugar and other industries of that colony. The natural increase of the Indian population in South Africa' is now much larger than the

increase by immigration. In the whole Autrialian Commonwealth there are not more than 7,000 Indians. The bominion of Canada has 4,500 in all. The significance of these trilling totals must be viewed in the light of the conditions prevailing in India. Here, it is true, there is a wast population. Were these 300 millions subjected to the economic conditions of Europe, and were they imbored by the adventurous and ambitious spirit of Europeans, there would be good ground for slarm in the Colonics at the possibility of an overwhelming influx of Indians. But those are precisely the conditions that do not obtain in the Indian Empire. The demand for labour in India is always greatly in excess of the supply. The tea-planters of Assam are obliged to compete with the Crown Colonics in an elaborate system of cody recruitment. Labour-hortage is a chronic difficulty with the cotton mills of Bombay. As Industrial expansion proceeds and agricultural methods improve, as more land is brought under cultivation, there must be a diministing likelihood of emigration from India on any large scale. Add to this the inderent reluctance of the Indian to go far from home, and it will be apparent that the danger of "white mee's countries" being swamped by Indian immigrants is at the least remote. It is never likely to assume such proportions as would pass the vit of statesmen to control.

Indentured Emigration.—The institution of indentured labour in the tropical colonies of the Empire is one of long-standing. As far back as 1804 Indentured emigration from India to the British West Indias was in progress under Government control. In the case of several of the tropical colonies there has been no interpution since then in the steady inflow of several thousands of Indian labourers annually. In Mauritius, the Straits Settlements, the Federated Malay States and Natal the system for various reasons has come to an end; but in all those countries there is now a large population of Indians, permanent or temporary, engaged as free labourers or in Independent positions. The principal colonies in which indentured emigration still prevails are British Gulana, Trinidad and Fijl. Even here, however, there has been a progressive decline during recent years, owing in part to the increased difficulty of recruiting in India. This difficulty arises entirely from the growing demand for labour within the Indian Empire, consequent upon industrial expansion.

The indentured system has been the subject of much controversy. It is disliked ir india and by some people in England, because it seems to present features analogous to slavery—in that for the term of his indenture the labourer is not a free agent; he is ad scriptus giebue, and bound to serve the employer to whom he is assigned on terms which are absolutely fixed. In the colonies themselves the system is unpopular on two grounds—(1) it ends to depress the current rate of wages, (2) only a minority of the time-expired coales become permanent settlers, the majority claiming their return passage and taking money out of the colony in the form of savings. From the polat of view of the labourer himself, the indentured system, if it has any true resem-

James to Party, is a less of low and that table to Promote their welfare. Its factory represents the factory and that table to Promote their welfare. The main live that the factory of the state when the which they were to direct main are to be table to the late; or the state when the house after the main are to be table to the late; or the state with the bounds of the direct afternion state to the late of the l see to be first therefore for rest. Logillat tasks are molerate hours of some witching medical sitentance or restlete; says a legislate whether the administration of the state for the first hours of restlete; says a legislate whether the administration of the state of the logillate for his edifferent most with any odinected and whether falsoners are for the first for the first form of the state of the first form of the fir

Trinitad

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Jamajea	117,100
Fiji **	120,389
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Stralts Settlements	257,697
Cam a .	210,000
Cain Colony	Figures not avail.
Transvani	c,coo /
Orango Francis	133,031
Southern Rhodesla	10,049
fundamental statements	
Australia	Figures not avail.
New Zealand Canada	n / 197
omining	The Ima
	12,300 or 4 con reg
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Commission of Inc.	certain). com

Commission of Inquiry Appointed.

About the end of 1010 the Government of India appointed a Commission of two Mr. Chiman Lal. to report mon Angla appointed a Commission of two, Mr. J. McXelli and Mr. Chiman Lai, to report upon the conditions of life of the Indian immigrants

The method of peruiting industried cooling entering the position of free indians, female industries of the use, and suicides and immorality on the estates. The method of peculting indeniured coolies sign; the position of free Indians, female Indeniural States, pp. 467-8.

Indian Year Book, pp. 467-8. Indians in the Colonies.—Sintement there, were engaged in their investigation for about 11 in the training colonies.—In the training colonies. They visited Trinidad, British Quiant, I Jamaica and I III, and also the Dutch Colony of Merits of the system.—The Commissioners were engaged in their investigation for about 11

Jamaica and I III. and also the Dutch Colony of Jamaica and I ili, and also the Dutch Colony of Sorinam which is permitted to recruit labourers under contract of indenture in India, Their report is in two parts, Trinidad and British account part. After a detailed exposition of the calabove in each of the colonies visited by them, that notwithstanding our possibly disproportions. the Commissioners observe: We are convincing that notwithstanding our possibly disproportions that notwithstanding our possibly disproportions at presentation of the unsatisfactory features of the careful study of the careful stu of the existing system, a careful study of the facts elicited during our inquiry will result in the conclusion that its advantages have far majority of emigrants exchanged studing result in water years with practically no hope of studing potential of a condition varying from simple but secure under very much better conditions than their relatives in India, and have had opportunities of relatives in India, and have had opportunities of hopes. They became citizens of the rolled to hopes. They became citizens of the rolled to hopes. They became citizens of the colonies to nopes. They occame chirzens of the colonies to which they emigrated and both they and their descendant have attained to positions commanding general respect and consideration, of A manding general respect and consideration. A regards the moral condition of the immigrants the Commissioners observe: There is no the Commissioners observe: There is no compares very unfavourably with that of an estate population of the compares very unfavourably with that of an estate population of the compares very unfavourably with that of an estate population is not compared to the compared to compares very unavourably with time or an Indian village, and that the trouble originates in the class of women who emigrate. "The rates of saicide among the indeptured labourers are the conditions of life of the Indian immigrants in the Colonies. The Commissioners were also population was 181 per million and for the transgements which may be considered desir. The commendations are any indentured 400 per million. The suicide rates among Indians in the other colonies were: British of suicide among the inventures involvers are high as compared with those among free Indians ing the colonics, and much higher than those among the state of the st in the colonies, and much migner than those smooth the population in the provinces of India. In Trihidad the suicide inte for the total India.

Guiana, unindentured, 52 per million, indentured a country of their destination they will be proper 100 per million; Jamaica, 390 per million, suicides amongst the unindentured not being separately recorded; Dutch Gulana, unindentured, 49, indentured 91; Fiji, unindentured, 147 per million, indentured, 926 per million. According to a statement prepared by the Department of Commerce and Industry of the Government of India, the average suicide rates for India are, the Bombay Presidency 28'8 per million. the United Provinces whence most emigrants are drawn, 63 per million and Madras, the other chief source of supply to Fill, 45 per million.

Indian Feeling.—For some years past, there has been a growing feeling amongst Indian leaders that the indentured system of labour was inconsistent with national self-respect, and should be stopped. This feeling originated in the belief that the treatment accorded to Indians in the self-governing colonies, especially in South Africa, was due to the Colonials coming to think poorly of Indiana as a race because of the class represented by indentured labourers, In 1910, the Government of India accepted a resolution moved by the late Mr. Gokhale tuns an end to the indentured system so far Natal was concerned. In 1912, however, they proposed his resolution to abolish the system altogether. Opinion in India has been ripening fast against the system, and it is rel forced by the rapid industrial development of the country making largely increasing demands on the labour market, depleted to some extent by the ravages of plague during the last twenty years. The startling figures of suicide and the admissions as regards the prevalence of immorality among estate populations immorality among estate populations, have roused public feeling in the country, and this has been accentuated by well-authenticated stories of young caste women of respectability having been decoyed by dishonest Ability naving been decoyed by disholest recruiting agents to the emigration depots. Mr. O. F. Anirews, late of St. Stephens' College, Delhi, and now connected with the school conducted on his own_original lines by Sir Rabin iranath Tagore—the Foot-laureate of Asia as the officer of the procedure of the contract of the original bilm—by Asia, as the Viceroy aptly called him—at colopin in the Bengal Presidency, was deputed by the Indian Citizenship Association of Bombay to visit Flji, and to investigate the conditions which make for the frightful rate of suicide recorded in that colony. He was accompanied by Mr. W. Pearson, who is also associated with the Rolpur School. Messrs. Andrews and Pearson, it may be mentioned, visited South Africa when the Passive Resistance struggle led by Mr. Gandhi was at its and rendered valuable service in helcht. bringing about the settlement that was eventually arrived at.

Protected Emigration.-In a speech delivered in Council on September 5, 1916, H. E. the Viceroy stated that the Government of India were contemplating the control of the operations of persons engaged in supplying labour to the Colonies. "Labourers," said His Excellency, "have a right to emigrate if they wish, and it would be very unwise and very undesirable on our part to prevent them, and we are, therefore, trying to devise arrangements which will secure that recruitment in this country is conducted

ly treated and allowed to engage themselves on terms at least as free as those obtaining at pre sent in the Malay Peninsula, where a laboured can leave his employer by giving a month's notice. I think it will be clear to all who have studied the question that the Government o India would be departing gravely from its duty If it allowed emigrant labour to leave this coun try without proper protection and safeguards There are a certain number of labourers, I believe a very small number, who emigrate as genuine free labourers, that is to say unassisted by pecuniary help and uninvited by any interested agency. But, if we confine ourselves to the abolition of our existing indentured emigration, a position will arise in which the parties interested in procuring Indian labour will be free to induce labour to emigrate by pecuniary help under any conditions they like, so long as the labourer does not go under Indenture. abuses likely to arise out of such a state of things would be very serious. I need only refer to the state of affairs which existed before the amendment of the Assam Labour and Emigration Act, in connection with so-called free labour. The consequence of this system was, as Sir Charles
Bivaz putitin his speech before the Legislative
Council in 1901, that a horde of unlicensed and
uncontrolled labour purveyors and recruiters
sprang into existence, who under the guise of
assisting free emigration made large illicit gains by inducing, under false pretences, ignorant men and women to allow themselves to be conveyed to Assam. These emigrants were, it is true, placed under labour contracts on arriving in that province, but the abuses complained of arose in connection with the recruitment and not with the contract. Similarly when the system of indentured emigration first arose in India the only caution required was that intending emigrants should appear before a magistrate and satisfy him as to their freedom of choice and their knowledge of the conditions they were accepting. It was shown, in a report submitted in 1840, that abuses undoubtedly did exist in connection with recruitment in India, abuses which the constantly increased safeguards provided by successive Acts of the legislature where vided by successive Acts of the legislature when disigned to correct. Uncontrolled recruitment cannot, it is clear, be permitted under any circumstances. Lord Hardinge promised, and I associate myself with him, to deal with certain points. These points were the better supervision of colonial recruiting in India, the insertion of information regarding the penal conditions attaching to labour contracts in the indenture signed by intending emigrants and the undesirability of labourers in the colonies being comp-lied to do work repellent to their caste ideas and religious beliefs. Regarding the first matter we have already consulted local Governments very fully when asking their views as to the precautions which will be required after the aboli-As to the tion of indentured emigration. As to the second point you are no doubt aware that Filias now abolished Imprisonment for labour offences and other colonies are arranging to follow suit-But there will still be certain provisions remaining which we think should be brought to the notice of intending emigrants and we have aranged to do this as soon as the various colonial under decent conditions, that a proper sex ratio logical turns concerned have passed the amend-will be maintained and that on arrival in the ments to which I have alluded."

Indenturing Abolished — in forces, some tyrars. Under the proposed system the limited and state of the proposed system the limited and the proposed system the limited and the proposed system that the limited and the proposed system that the system of the proposed system to be listly to only by way of the proposed system the limited system of the proposed system of t in time of was, it was soit that the consumance of state from the "single" quarters will be of a system open to such grate effections for ten i made compulsory upon all employers of more systems and some state of the consumers and with the constraint of the constr of a dystem open to such prace educations for ten a made computery upon all employers of more for the process for recombination and the years than tenny adult indian immigrants and will be the form to be the control of all other employers on the register. This control is a second of the control of all other employers on the register. This control is a second of the control of all other employers on the register. This and emigration from in its, he m may increase, on , ed employers " that is to say of persons defined and the later applicable of the later applicable deficite.

militer gut in London to consider what form of resisted emigration should take the place of the information. Its report was found about the

fit. Each male adult employed in an acricultural fit. Each male adult employed in an actionism of contaged but persons below the age of contaged but persons below the age of contaged by the age of contage after six months' service and a larger plot of one-third of an acro will be made available whenever practicable by way of remard. At the end of three years' employment under any of the Portion of women to men will be abolished. employers on the frenches will be taken to:

The report was published at a time when the ensure that land is available for settlement in the political energies of India were concentrated on simpler and cheapest manner. In each colony the development of the Indian constitution that the settlement is a department resonable for the settlement of the Indian constitution. provision of sufficient land to meet all long fide provision of sufficient fand to meet all long par to discuss these questions on the spot. It applications and for rendering it suitable for attracted little attention. So far as opinion was agriculture by adequate clearing, irrigation and drainage. These holdings will be up to fire the settlements will be for a period of thirty emigration to distant lands.

had respond that the system of interturing must make will be fixed, subject to periodical system of the continued for a further period of the resisten. During the fixed subject to periodical system in the working out of an alternative of the interturing the resistent fixed periodical fixed periodical system of the country. White a periodical states which continued the country was remained and of the colories are remained under the will be given a further of the Government and of the colories the register. The remaining of married quarters the asystem of a system o testifactor were civen that the system would be the projector of immediate and who leave the related. Thus indeathing ended by larve been found on inquiry to be suitable. Resistantly, but presented when it is desired.

Chicagologically, will provide for himself and bit desired. of employing asserted emigrants, who have appli-The entigrants will receive for himself and his de-Jendenia half the passage money after three

insentates. He prort was issued about the With regard to recomment, Emigration Agents middle of the Frey and the chief recommends will be licensed and paid fixed salaries, with pos-Einler this rehense Indian will arrive in the color extremely for the cert of his introduction. He will can a graded scale of pay. Over them will be men of from a graded scale of pay. Over them will be color, a specied employer will be chosen for him of Immigrants, appointed by each Local Government. This employer can be ment to supervise ment to supervise on the ment to supervise on the ment to supervise configuration in the province. With regard to reconitment, Limigration Agenta tion, a selected employer will be chosen for him; of immigrants, appointed by each Local Governfor the first six months. This employer can be ment to supervise emigration in the province
changed, with the approval of the protector of affected, it each colony will be a Protector
all. From the time of his arrival the immigrant be visited by non-official gentlemen of standing
will be given land to cultivate for his care, here. in the district as also will be the Central Depot. The emigration of whole families will be encontaged but persons below the age of eighteen panied by their parents or guardians. Women unaccompanied by their families will not be assisted and the rule requiring a certain pro-

The report was published at a time when the and the pending visit of the Secretary of State to discuss these questions on the spot. It orninge, these notatings was on up to use was an immense anyance on the system of insection and in the case of leaseholds, and ment to take so large a part in the direction expressed, whilst recognising that the system

Indians in Great Britain.

More than sixty years have gone by since the Pars! community, in the persons of the late Dadabhai Naoroji and other members of the firm of Cama & Co., led the way in the solour of Indians in England for business purposes. This lead, it has since maintained, though there are both Hindu and Mahommedan business men firmly established there. Nor are the professions unrepresented, for there are in London and elsewhere practising barristers, solictiors and medical men of Indian birth. Three Indians are on the Secretary of State's Council, and at least one successful in the Civil Service examination elected to work in England instead of returning to his native land. The parity years of the present century saw the othering of a new Indian element in permanent residence—that of retired officials (particularly of the L. M. S.) and business men, or people of independent means who from the

ereine or in order to have their children edued in England, leave the land of their birth
and seldom if ever visit it again. Further, the
tream of Indian summer visitors (temporarily
simost suspended by the war) includes wealthy
copie who came regularly as the swallows
a spring, and some of them spent as much
ime in England or on the Continent as in
heir mother land. Before the transfer of
he Indian troops in France (other than the
Zavalry Division) to "another scene of operfons" towards the end of 1915, thousands of
ur valiant Indian soldiers, wounded or invaded from Flanders, went to England
o be nursed back to health in the wellquipped and admirably administered Indian
topiltals, some in Hampshire but chiefly at
arighton where the fact is to be commemorated
by a permanent Indian provided memorial.

The Students.

But under normal conditions it is the student ommunity which constitutes the greatly reponderating element and creates an Indian roblem. Its numbers multiplied ten or twelved in the quarter of a century before the war, he increase being especially rapid after 1904 r 1605. There was indeed an artificial inflation ome five years later when many youths (some them ill prepard) were hurried off to the Inns. f Court in order to be entered before the Landard of the examinations qualifying for dmission was raised. This sudden examinations qualifying for dmission was raised. This sudden examinations and particularly that of the technical and engineering schools and classes. Allowing for the very considerable temporary check caused by the European War the aggregate number may be estimated at now under 1,000. This total does not include of the growing number of youths of good family, some of them heirs of Native States, admitted into our public schools, such as Eton and Harrow, nor the younger children of resident Indians. Nor does it comprehend Burmese students of whom there are about 50. Nor does it take full account of female students in schools and colleges. Exact and complete records on these points are not obtainable.

It is, however, with the young men abo 1,000, almost all far removed from parenta oversight and control, that the organization set up by the Secretary of State for India had to deal. Of these on 30th June last 157 were at the Middle Temple, 52 at Lincoln's Inn, 74 at Gray's Inn and 85 at the Inner Temple. Altogether, including technical and medical students, there must be 600 in London. Edinburgh comes next with 100, Cambridge with 69, Oxford with 59, Glasgow with the same number, Dublin (a comparatively new centre) with 60 and Manchester with 19, while there are smaller numbers at Birmingham, Leeds, Sheffield, Liverpool and other centres.

It is well insure that well a few years and

It is well known that until a few years ago the young Indians, apart from inadequately-supported unofficial effort and the chance of coming under the influence of English friends of their families, were practically left to their own devices. But in April 1900 Lord Moriey, as a result of the investigations of an India Office Committee, created for their benefit a Burcau of Information and appointed Mr. T. W. Arnold to the charge of it under the title of Educational Adviser. The Burcau was located in due time at 21, Cromwell Road, together with the National Indian Association and the Northbrook Society, which were thus given spacious quarters for their social work among the young men, without incurring what would otherwise have been the prohibitive cost of heavy rent. Lord Morley also established an Advisory Committee, mainly composed of influential Indian revidents, but which has now caused to exist, and in India corresponding provincial committees were formed to help and advise intending students. The work of the Bureau rapidly expanded, and in consequence Lord Crewe in 1912 re-organised the arrangements under the general charge of a Secretary for Indian students, Mr. (now Sir) C. E. Mallet who resigned at the close of 1916. He was succeeded by Mr. Arnold under the designation of Educational Adviser for Indian Students to the Secretary of State. Mr. N. C. Sen has followed Mr. Arnold as Local Adviser in London, and there are corresponding officers at the modern provincial universities.

Two strange debusions (in some cases they

may be called deliberate misrepresentations; have been propagated in reference to these arrangements. One is that the India Office set up the Burcau in order to track down the wave of seditious sentiment which culminated in the assassination of Sir Curron Wyllie along years ago. As a matter of fact the Burcau was established three months before the commission of that erime, and was proposed at least a year previously. The object, as The Times observed in September 1908, was not "to put these young men into political leading strings, nor officially to restrict their liberty. It lies in doing all that is possible to facilitate their educational progress and their general welfare, and in bringing them under wholesome and helpful influence." Mr. Arnold accepted his appointment on the distinct understanding that there would be no explonage

Removing Barriers.

It is no less of a delusion for the students to hold, as some of their elder fellow-countrymen have encouraged them to do, that the Bureau is responsible for restrictive rules and regulations of colleges and other institutions, or at any rate for their continuance in spite of protests. The fact is that in consequence of protests. The tact is that in consequence of the wave of disaffection to which reference has been made, and of various practical difficulties arising from the growth in numbers of indian applicants for admiresion, many of the universities and other educational institutions had passed restrictive, and in some cases almost prohibirestrictive, and in some cases almost prohibitive, regulations attecting Indians when the
Bureau came into being. The authorities
in question are independent of out-ide control,
and of no department in Whitehall are they
more so than of the India Office. The Bureau
cannot do more than approach them with
requests and suggestions for the benefit of
Indians, or with undertakings to afford the
approaching which in many cases is made a condition of admission.

Oxford and Cambridge.

So far from blocking the way, as hostile observers have alleged, the Bureau has been singularly successful in opening closed doors and amguany successful in opting closed doors and mitigating any real grievances. Its greatest triumph is that at Oxford and Cambridge, where naturally the difficulties of admission have been most pronounced, it has paved the way to the creation of University machinery to replace its own operations. The Oriental Delegacy at Oxford and the inter-collegiate Indian Students' Committee at Cambridge have now undertaken all the work hithertocarried on by the Local Advisors, and thus carried on by the local advisors, and this indian undergraduates are given a welcome locus standi. Every element of Government control, so disliked by many of the students, has been eliminated by this practical recognition of the two ancient universities of a special tion of the two ancient universities of a special responsibility towards Indians imbibling their culture and traditions. The Secretary of State for India makes grants to these bodies, which are about equivalent to the cost of his former local representatives. The working basis between the new bodies and the Department is one of mutual assistance for the benefit of the students, and familiarity with the conditions is assured by the appointment of the late Local Advisers as the respective secretaries.

Whatever may be done to meet real grievances, these are inherent difficulties in the whole problem; but happily no lasuperable obstacles of race arisa. Sir T. Morison's Committee of fits Technical Scholarhips reported in 1913 that the difficulties encountered by young Indians in supplementing academic instruction by technical experience in factories and workplicable to their English contemporaries, and that there is "on the whole very little evidence of a racial prejudice against indians." Nor need any yould go to England under missions to the admitted to the Officers apprehension as to the facilities for his education that it is is one of soveral military questions which and their limitations. The excellent "Handbook of Information for Indian Students" the military authorities after the conclusion of issued by the National Indian Association and

the Advisory Committee, now in its Afteenth edition (1914) supplies all relevant facts and advice; and on personal details, the Indian Advisory Committees can be consulted.

Persunsion not Coercion.

It is not the case, as some Angle-Indians of the old type imagine, that the Bureau could easily exercise disciplinary control over all young Indians in London and elsewhere. The fact is that except in respect to holders of Government and some Native State Scholarships it has no disciplinary authority save when parents place their sons under the guardianship of Mr. N. C. Sen or a provincial Adviser, and even in these cases the control can only be exercised in connection with the administration of the regular allowances. The Bureau has had a most beneficial influence in saving accres of young men from falling into debt, intemperance or marital folly, but this has been exercised not correlely but by friendly personal contact and keeping before them the obligation and necessity from every point of view of adhering to the purposes of culture and equipment for which they have gone to England.

The students have hosts of non-official friends and lielpers. Under the presidency of Lord Hawke and the chairmanship of Sir F. Robertson an Indian Gymkhana Club has been established with a fine sports centre at Acton, the Null Hill Park Club's ground having been taken over. The cricket eleven of the Club did well in 1917 in mat.hes at Lords and the Oval.

Students and the War.

The removal of misunderstanding and projudice should be materially promoted by the changed and gratifying conditions brought about by India's response to the call of Empire in the European War.

In this young It ilans in England have had their part. A few chlisted in the new Armies raised in England being readily admitted on atisfying the usual physical tests and some of these have lost their lives in the Imperial cance. Many others offered their services unconditionally to the authorities, with the menonalitionally to the authorities, with the result that an Indian Field, Ambulance Corps was organised under the command of Colonel R. J. Baker, late I. M. S. The total enrolled strength of the Corps was 272, of whom altogether 216 were employed at the various Indian hospitals and depots in England, or on the Indian haspital ships. A contingent was sent to Egypt and later to Mesopotamia. The Corps would have grown still turther had not the War Office stopped recruitment to consoquence of the ample provision otherwise made.
Two members of the Corps received permanent, and 38 of them temporary, commissions in the I. M. S. Meanwhile a com-

Appointments to the Indian Services.

Full details of the regulations governing appointments to the Indian Services are published in the India Office List. The more essential particulars, except as regards the Civil Service and Police,—of which fuller details are given elsewhere in this book—are given below.

Indian Agricultural Service.

The appointments in the Indian Agricultural Service include those of Deputy Director of Agriculture, Agricultural Chemist, Economic Botanist, Mycologist, Entomologist, Professors of Agriculture, Chemistry and Botany at Agricultural Colleges, and the like. Some of these are included in the Imperial Department of Agriculture under the direct control of the formula of the control o Agriculture under the direct control of the Government of India, but the majority are included in the Departments of Agriculture of the several provinces of India. In some cases candidates will be appointed direct to these posts, but in most cases they will be appointed as supernumeraries, will undergo a further course of training in India in Indian agriculture, and will be appointed to posts, for which in the opinion of the Government they are considered suitable, on the regular establishment as vacancies occur. Appointments are made

the Secretary of State for India as occasion , require. Candidates must, as a rule, be not less than 23, nor more than 30 years of age. in selecting candidates for appointment, weight will be given to the possession of (a) a University degree in honours in science or the diploma of a recognised school of agriculture or other like distinction; (b) qualifications in a special science according to the nature of the vacancy to be filled; (c) practical experience. Importance is also attached to bodily activity and ability to ride, and selected candidates have to undergo an examination by the Medical Board of the India Office as to their physical fitness for service in India.

quent years .. 500 rising by annual increments of Rs. 50 a month to Rs 1,000 a month.

Candidates who are required to undergo a further course of training in India as explained above will be appointed on this of salary, commencing on a pay of Rs. 400. Where, for special reasons, a candidate is re-cruited for direct appointment to one of the regular posts under paragraph 1, his initial pay will be determined with reference to the special qualifications on the length of European experience required for the appointment for which he is specially selected, but his subsequent increments of salary will be regulated by the foregoing scale. In addition to this scale of any, officers filling appointments directly under pay, officere filling appointments directly under the Government of India, as distinguished from appointments under Local Governments (but not including officers holding supernumerary posts, the post of inspector-General, or the post of Director of the Pusa Institute) will be eligible for local allowances conditional on approved good work, and the Government reserves to itself the fullest discretion as to granting, withholding, or withdrawing them.

Indian Civil Veterinary Department,

The officers of the Indian Civil Veterinary Department perform or supervise all official veterinary work in India, other than that of the Army, and are debarred from private professional practice in India. Their duties may be divided into three classes, under the following heads :-

(a) Educational work in veterinary colleges;
 (b) Horse and mute breeding;

(c) Cattle disease and cattle breeding.

Appointments to this Department are made, as vacancies occur, by the Secretary of State for India. Candidates must not (except on special grounds to be approved by the Secretary of State) be over 26 years of age, and must | year Rs. 1,200 a month.

possess a diploma from the Royal College of Veterinary Surgeons. Evidence of a knowledge of bacteriology, and of capacity for carrying out original research, will be specially taken into accourt in estimating the claims of candi-Good health, a sound constitution, and active habits are essential, and candidates must be certified by the Medical Board of the Incis Office to be physically fit for service in India.

Pay will be as follows:—On arrival in India.
Rs. 500 a month, rising by Rs. 40 each year to
Rs. 1,100, which rate will continue from the
beginning of the 16th to the end of the 20th
year of service; after the beginning of the 21st
year Rs. 1 2000

Ecclesiastical Establishments (Church of England).

Appointments of Chaplains on Probation are made from time to time by the Secretary of State for India, as vacancies occur. Candidates for these appointments must be Priests who are between the ages of twenty-seven and thirty-four years, and have been for three years altogether in Holy Orders. Applications for nominations should be submitted to the Secretary of State.

A Chaplain will be on probation for three years (a); if confirmed in his appointment at the end of that period, he will be admitted as a

Junior Chaplain.

The salaries of Chaplains are: Senior Chaplains, Rs. 10,200 per annum for five years, and then Bs. 12,000 per

annum. Junior Chaplains, Rs. 6,360 per annum for five years, and thereafter Rs. 8,160 per annum until promoted to be Senior

Chaplains. Chaplains on Probation, Rs, 5,760 per

A Junior Chaplain becomes a Senior Chaplain after ten years' service, excluding the period of probation

pals of Training Colleges, and occasionally eational Service, generally professorblips in Headmistresses of Schools. The salary attached Colleges. Such appointments are made for not

Headmistress of Schools. The salary attached colleges, such appointments are made in Reto these appointments is ordinarily Rs. 400 a
month, rising by annual increments of Rs.20 a
month to Rs. 500 a month.

The Screetary of State is sometimes requested
by the Government of India to supply persons
to fill temporary vacancies in the Indian Eduincrements of Rs. 500 a month,

Indian Forest Service.

The Secretary of State for India in Council ed Assistant Conservators in the Indian Forest makes appointments of Probationers for the Department, provided they are of sound con-Indian Forest Service, according to the numbers annually required.

Candidates must be not less than 19 but under the age of 22 years.

Candidates must have obtained a degree with Honours in some branch of Natural Science in a University of England, Wales or Ireland, or have passed the Final Bachelor of Science Examination in Pure Science in one of the Universities of Scotland. A degree in Applied Science will not be considered as fulfilling these conditions. Candidates will be required to produce evidence that they have a fair knowindge of either German or French.

The ordinary period of probation will be two years. Buring that time probationers will be required to pass through the Forestry courte at one of the following Universities—Oxford, Cambridge or Edinburgh (subject to the arrangement of a suitable course)—becoming members of that University, if not so already; to obtain the Degree or Diploma in Forestry which it greatly and for satisfy supe other texts. which it grants; and to satisfy such other tests of proficiency as may be deemed necessary,

During the vacations, the Probationers will, under the direction and supervision of the Director of Indian Forest Studies appointed by the Secretary of State for India in Council, receive practical instruction in such British and Continental forests as loay be selected for the PRITOPS.

The Secretary of State for India in Council will make payments to each Probationer at the rate of £120 annually, not exceeding a total of

Probationers who obtain a Degree or Diploma in Forestry, and also satisfy such other tests of proficiency as maybe prescribed, will be appoint-

Department, provided they are of sound con-stitution and free from physical defects which would render them unsultable for employment in the Indian Forest Service.

The sanctioned scale of the service at present.

I Inspector-General of Forests 2,650 a month. I Assistant Inspector-General

of Foresta 2 Chief Conscivators (Burma

and Central Provinces) ... grades (Including President, Forest Research) 1,700 22 Conservators, Institute and College)

157 Deputy Assistant and Conservators

An Assistant Conservator of Forests will draw pay at the rate of Rs. 350 a month from the date of his reporting his arrival in India rising by annual increments of Re. 40 a month to Rs. 700 a month, thereafter by annual in-crements of Rs. 50 a month to Rs. 1,250 a month in the 20th year of service.

After a service of not less than 20 years, a retiring pension is granted not exceeding the

following amounts :-

abr	Scale of P		
_	Years of Completed Service.	Sixtleths of Average Emolu- ments.	Maximum Limit of Pension.
20 25	to 24 and above	30	R*. 4,000 a year. Rs. 5,000 a year.

Indian Geological Survey.

The Geological Survey Department is at present constituted as follows:-Monthly Salary

				Rs.			
1 Director		••	 	2,000		Rs.	Rs.
3 Superintendents	**	. ••	 	1,000	tisling by	60 to	1,400
15 Assistant Superint							
For the first five	ZC3T	5	 	250	, i	30 ;;	500
Thereafter			 	500	11	50 ,,	1,000
1 Chemist			 	500		50	1,000

Appointments to the Department are made University degree and a knowledge of French by the Secretary of State for India. They will or German will be regarded as important quality be made about July of each year, and ifications; and certificates of a high moral the probable number of appointments will, if character will be required. Candidates must provable, be appropriated by a property two years in ed. also have had no required. Candidates must be appropriated to the control of the provided of the large had not been control of the provided of the large had not been control of the provided of the large had not been control of the large had not rossible, be announced about two years in advance. The age of candidates hould not vance. The age of candidates should not in mines, or in technical laboratories, as may exceed 25. Besides a good general education, a sound education in geology is essential: a appointments are probationary for two sars.

4,560

Indla Office.

Vacancies in the cierical establishment of the Home Civil Service. The Examination for Secretary of State for India are filled from Class I. Clerkships is the same as the open among the successful candidates at the General Competitive Examination for the Civil Service Examinations (Class I, and Second Division), of India. Further particulars may be obtained which are held from time to time by the Civil competitive Examination for the Secretary, Civil Service which are held from time to time by the Civil competitive of the Secretary, Civil Service when the secretary of the Secretary o

Service Commissioners for appointments in the Commission, Burlington Gardens, Louden, W.

. Indian Public Works Department.

The Secretary of State for India in Council 3. The values appointments of Assistant Engineers as follows:—in the Public Works Department of the Government of India.

Candidates must have attained the age of 21. and not attained the age of 24 years.

Candidates must produce evidence that they have (1) obtained one of the University degrees mentioned in Appendix I., or (2) passed the AMI.O.E. examination, or (3) obtained such diploma or other distinction in Engineering as may, in the opinion of the Selection Committee, be accepted as approximately equivalent to the degrees mentioned.

The Engineer Establishment of the Indian Public Works Department consists of a staff of engineers, military and civil, engaged on the construction and maintenance of the various public works undertaken by the State in India,

- 2. The permanent establishment of the Department is recruited from the following sources :-
 - (1) Officers of Royal Engineers.
 - (2) Persons appointed to the Imperial Service by the Secretary of State by selection from the United Kingdom.
 - (3) Persons educated at the Government Civil Engineering Colleges in India and appointed to the Provincial Services
 - by the Government of India.
 (4) Occasional admission of other qualified persons,

3. The various ranks of the department are Calarm and

					151	diary per
}						annum
1					- (Imperial
1						Service)
}						Rs.
Chlor Engl	ncer. Fir	st Cla	68			33,000
	Sec	ond C				20,000
Superinter				t Clas	tal .	24,000
))))	B	מחיים	d Clas	202	21,000
_ "	1)	Ť	hird	Class		18,000
Executive	Enginee		ዝ ካ	Year	of	20,000
	nd follow			3444		15,000
Executive				of	• •	30,000
				Resyle	٥	14,400
- 66	45	18th	**	22	2.0	13,800
12		17th	99			13,200
	11	1616	11	>*		12,600
11	**	15th	-	33		12,000
11	91	14th	19	17		11,400
17	47	13th	**	**		10,800
**	**	12th	"	12		10,200
11	19	11th	**	- 11		9,600
Assistant I	onlines.	10th	9.9	**	- *	0,000
		9th	9.5	13		0,400
99	19	Bth	13	**		8,400
17	99	7th	18	99	* *	7,920
33	9.0		9.9	17		7,440
99	55	6th	11	99	* 4	6,960
99	44	5th	9.5	99	4.4	0,480
90	91	4th	11	4.6	* 4	6,000
19	**	Sect	59	55	* *	5,520
5.6	11	2nd	4.6	9.0		5,010

The increments will be given for approved service only and in accordance with the rules of the Department.

Exchange compensation allowance will not be granted to future entrants.

Promotions above the grade of Executive Engineer are dependent on the occurrence of vacancies in the sanctioned establishment, and are made wholly by selection; mere seniority is considered to confer no claim to promotion.

State Rallways.

The Secretary of State for India in Council will, from time to time as may be required, make appointments of Assistant Traffic Superintendent on Indian State Rallways.

Candidates must possess one or other of the following qualifications, riz.:-

- (a) Not less than two years' practical ex-perience of work in the Traffic Depart-ment of a British or Colonial Railway together with evidence of a sound general education.
- b) A degree or diploms of any teaching University in the United Kingdom granted after not less than three years' atudy in that University, or a technical

diploma or certificate recognized by the Secretary of State.

lst

The establishment of the Superior me Department of Indian State Railways courses of a staff of officers, military and civil, cagaged on the various miliways administered by the State in India. This establishment is recruited from the following sources:-

- (i) Officers of Royal Engineers
 - (ii) Persons appointed by the Secretary State by selection from the United Kingdom;
 - (iii) Persons appointed in India.
 - fiv) Occasional admission of other applified persons.

The various ranks of	f the	Depar	ment	are as
follows :		•		1
				ary per mum. Rs.
Traffic Managers				24,000
Deputy Traffic Manage	CITE			18,000
District Superintenden	its:-			
Cines II., Grade 1				13,200
" Grade 2				12,000
" Grade 3				10,800
n Grade 4				9,600
Grade 5				8,400
Assistant Superintend	ents:	_		
Class III., Grade 1				6,600
Grado 2				5,400
, Grade 3				4,800
Grace 4				3,000
. Grade 5			2,4	00-3,000

The establishments of the Superior Locomotive and Carriage and Wagons Departments of Indian State Railways consist of officers engaged on the various milways administered by the State in India. These establishments are recruited from the following sources:—

- (f) Persons appointed by the Secretary of State by selection from the United Kingdom;
- (ii) Persons appointed in India;
- (iii) Occasional admission of other qualified

The various ranks of the Departments are as follows:—

		nnnum Rs.
Locomotive Superintendents		24,000
Deputy Locomotive Superintendent		19,000
Carriage and Wagon Superintender	ıts	- 07 000

18,000 or 21,000 Deputy Carriage and Wagon Superin-

t	endents .				* *	15,000
1	District Supe	rinten	der	ats:-		
wi 1	Class II.,	Grade	1			13,200
Departments.	11	Grade				12,000
ä	99	Grade				10,800
4	n	Grade				9,600
10	99	Grade				8,400
-6-4	Assistant Su	perinte	nd	ents :		-
	Ciasa III.,					6,600
Poth	**	Grade				5,400
#	1)	Grade				4,800
Ď,	"	Grade				3,600
		Grade	อี		2,400	-3,000

Telegraph Department.

There are not at present any vacancies in the Superior Establishment of the Indian Telegraph Department, and it is considered unnecessary for the present to recruit any Assistant Superintendents from the United Kingdom. The arrancements for the future recruiting of the Department have not been finally settled. The various ranks of the superior establishment are as follows:—

٠	•		1	aximum Pet Pet Jensem
	_			Rs.
Director-Ger	ieral ,			3,000
Deputy Dire	ctor-Genera	ı		2,000
Ulrectors	••		• • •	1,800
Deputy Dire	ectors .		••	1,600
Chief Superi	ntendents, 1	st Class	••	1,400
Chlef Superi	ntendents, :	ind class		1,250
Superintend	ente, Ist Gr	ade		1,000
•	2nd G	rade		850
Assistant Su	perintenden	te, 1st 6	Grade	700
99	11	End	Grade.	550
29	21	3r.1	Grade .	450
20	11	4th	Grade.	350

His Majesty's Indian Army.

A certain number of appointments to the Indian Army are offered to Cadets of the Boyal Millifary College, and a certain number to candidates from the Universities. All King's Cadets (British and Indian) and Honorary King's Cadets nominated by the Secretary of State for India in Council have the option, during their last term at the Boyal Millitary College, of electing for appointment to the Unattached List for the Indian Army, or for appointment to commissions in British Cavalry or Infantry, The appointments to the Unattached List for the Indian Army remaining after the claims of the King's Cadets and Honorary King's Cadets (Indian) have been satisfied are allotted in order of merit to Cadets who satisfy the requirements of the Regulations respecting admission to the Royal Millitary College, and who elect to compete for such appointments, at each final Examination at Sandhurst.

King's India Cadetships,

Twenty King's India Cadets are nominated each half-year from among the sons of persons who have served in India in the Military or Civil Service of His Majesty or of the East India Company. A Candidate is not cligible for nomination as a King's India Cadet if he be under 17 or over 19.

A candidate is not eligible for nomination, and his claims will in no circumstances be considered until he (a) has qualified at the Army Entrance Examination, or (b) is prepared to attend the next examination. The fees of King's India Cadets at the Royal Military College are not payable by the State, except in cases where, after due inquiry, their pecuniary circumstances are ascertained to be such as to justify the payment.

Honorary King's India Cadetships.

Three Honorary King's India Cadets are nominated annually by the Secretary of State for India. Such Cadets are appointed from

(a) The sons of officers of the Indian Army; who were killed in action, or who have died of wounds received in action within six months of such wounds having been received, or from liners brought on by fatigue, privation, or exposure, incident to active operations in the field before an enemy, within six months after their having been first certified to be ill.

(b) The sons of officers of the Indian Army, who have obtained the brevet substantive rank of Major or Licutenaut-Colonel, and have performed long or distinguished service.

An Honorary King's Cadetship carries with it no pecuniary advantage.

Queen Alexandra's Military Nursing Service for India.

The Nursing establishment is for duty with: British officers and soldiers, and at present: f consists of:—

- 4 Lady Superintendents.
 - 16 Senior Nursing Sisters.
 - 71 Nursing Sisters.

· The numbers in these grades are subject to alteration.

Nursing Sisters at the time of appointment must be over 27 and under 32 years of age. Candidates for the Service must have had at least three years' preliminary training and service combined in the wards of a British general hospital or hospitals of not less than 100 bede in which adult male patients receive medical and surgical treatment, and in which a staff of Kursing Sisters is maintained.

The duration of a term of service, for all grades of lady nurses, is five years. A lady nurse who has been pronounced by a medical Board to be physically fit for further service in India, may be permitted to re-energe for a second and third term at the option of the Government, and agais for a fourth term, or until the age of computeory retirement, if is all respects efficient and if specially recommended by the Commander-in-Chief in India. But a lady nurse will not under any circumstances be permitted to romain in the service in the grade of Lady Superintendent beyond the age of 55 years, or in either of the other grades beyond the age of 50 years.

Rates of Pay.

(In addition to free quarters, fuel, light, and punkah-pullers.)

	Rs.	per mensem
	300	
Sentor Nursing Sister over		-
five years in grade	225	22
Senior Nursing Sister un- der five years in grade	900	
Nursing Sister over five	200	23
vears in grade	200	11
Nursing Sister under five		
years in grade	173	22

Royal Indian Marine.

All first appointments of executive officers in the Royal Indian Marine are made by the Secretary of State for India

The limits of age for appointment to the junior executive rank, that of Sub-Lieutenant, are 17 and 22 years, and no candidate will be appointed who does not possess the full ordinary Board of Trade certificate of a Second Mate; zertificates for foreign-going steamships will not be accepted

PAY AND ALLOWANCES.

The present establishment of officers of the Royal Indian Marine and their allowances are as follows:—

32 Commanders on pay ranging per memsem from Rs 350 to Rs, 600, in addition to staff or command

per mensem.

Allowances per mensem.

	Licutenants on completing eight		
	years' seniority .	On	R4. 300.
	Licutenants on completing alx		
	years' seniority .	On	Rs. 250.
72	Lieutenants on		
721	completing three years'		
	sentority	On	Rs 200,
	Licutenants under three years'		
1	seniority	On	Rs. 150
	Sub-Licutenants	On	Rs. 125
	Sub-Lieutenants	On	Rs. 100

Total .. 101

In addition, 3 Commanders and 8 Lieutenants are at present employed in the Marine Survey of India

A certain number of Shore, Port, and Marine Survey appointments are usually reserved for officers of the Royal Indian Marine. The numbers so reserved and the allowances attached (in addition to pay of grade), are as follows:—

		•	Rs.
4	Shore appointments		1001000
16	Port appointments	**	320- 870 per dlcm.
11	Marine Survey appointm	ents	4-20

The sanctioned establishment of the Engineers branch of the Marine numbers 82, of whom at present, 10 are Chief Engineers, and the remainder Engineers and Assistant Engineers.

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N.B.—In calculating the terring equivalents of rupes salaries drawn by Europeans appointed in England to permanent service in another, it is necessary to bear in mind that in some case's Exchange Compensation Allowance is drawn in addition to anlary. This allowance is at present at the rate of 6½ per cent, on the salary, su piect to a maximum of Rs. 138-14-3 a month; but the rate is subject to alteration in the eventent in the average, rate of exchange between England and India. 116'5 2,331 Compensation E.C. A. 1,0,0 3,151 3,231 3,311 (7) E. C. A. 2,360 2,300 0586 3,040 000,5 3,200 5,080 инини (n) Salaries stated, (a) when Exchange 36,000 31,800 30,000 10,800 008'91 000,00 12,000 13,200 13,000 kupees per Annum, 3,000 3,100 3,500 3,600 6,000 96,1 unpecs per Monsem, Equivalent with 1,115 1,530 1,015 5.00 1,785 1,870 £, 2.031 [] (\dot{q}) Equivalent without 2,210 S 520 810 000 080 920 2000 (v) approximate equivalent in sterling of the rupee 33,600 20,400 21,600 22,800 25,200 31,200 32, 500 23.000 nupees per Annum. 2,800 86. 2,000 Rupees per Mensem. Equivalent with 555 505 337 080 21 705 807 933 900 (q)E. C. V. Edulvalent 1,200 380 200 8 96 18,000 005,01 10,800 11,400 12,000 13,200 14,400 15,000 8,400 0,000 000,0 unpees per Annum. following table shows the 730 108 8 86 1,500 ş tapees por Mensem. E. C. A. 901 127 149 170 255 297 88 53 Equivalent THEP. (q) 180 8 8 용 8 320 8 38 Equivalent without Allowance is not (D) 7,200 1,58 1,800 g 9000 3,00 3,600 Rupees per Annum. 8 150 Rubeer ber yensem:

The Indian Civil Service.

In the early years of the eighteenth century of East India Company was still little more in 1861, sets forth the list of offices peached and civil Service is to be sought in the modificulties which the Company underwent as it of the Indian Civil Service. It under-accretaries to governments. premiment of the country with which is was adding. It was gradually realleed that neither My civil servant should covernate matter to suppose in trade nor to receive presents, that the suppose on their side should provide salaries unicently handsome to remove the temptadon to supplement them by litegitimate temptaand that, in order that the best men might be
dider the Defineigal administrative posts
duder the Covenanted Civilians administrative posts
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for only in the covenanted civilians on the cade so was
deed to important water antives of indiga civilants. On the cade so was
for every civil department, bowever nearly and ability in to any of the offices reday regards the generated to stain the second, the service sill above the served by law to many of the offices reday regards the generated of salaries of appointment of appointment of which allowed the
coveranted the process of the covenanted civilians of the offices reday regards the generated of salaries of appointment was so bandsome that it facilities were afforded to incline which are supplied to the statute book of appointment of appointment of which allowed the covenanted civilians. This method is appointment to the statute book of appointment of appointment of appointment of any of the offices reday regards the covenanted civilians. This method is appointment than the facilities were afforded to incline for promo ompany on their side should provide salaries and company on their side should provide salaries of the tempts. As regards the second, the scale of salaries of appointment was dropped in 1880, and undertake any general revision of it. The list to been introduced to meet indian aspiritions.

At first nominations to the service of the service of the first terms of the service of appointment was dropped in 1880, and the service of t

of reserved posts remains, so that is all the control of the server of t

pdian Civil Service is to be sought in the modi-sations which the Company underwent as it jund lited; Year foot in the country with which it was and under-secretaries to governments, com-and under-secretaries to governments, com-lands. It was gradually realised that neither the modern of revenue, Civil and Sessions sudges, of Districts (in fading. It was gradually realised that neither he pay nor the training of the Writers, Factors and Marchants of the Company was adequate the difference on to perform. As a result this work work work which they were already the provinces, many of the above posts the many of the above posts. In addition to the page of the page of the posts of the page of b the administrative work which they were fas often indifferently done, and corruption of having recordanized the administrative branch is a content of the company's action indifferently done, and corruption of having recordanized the company's administrative branch indicate the company's administrative branch indicate the company's accordance with permanent and principles from which there has being those of Lieutenant-Governor and hiembeing those of Lieutenant-Governor and Mem-

Ocspite the complete eligibility of natives who now seek their education in England, managed at the contract of the contract o

[•] The Chief Revenue Officer of a District is known as the Collector in the "regulation Deputy Commissioner, and his assistants are Assistant Commissioners, Elsewhere he is the

charges; touring rules vary in different provinces, but in Bombay the Collector spends four and his assistants seven months in the year on tour.

By the time the highest grades in the offices of Collector or Judge are reached the Civilian has, as a rule, nearly completed the 25 years which are necessary before he can retire. Should he elect to continue in service, there are still posts to which he can look forward for promotion. On the one hand, he may become a Commissioner or even a Member of Council, and on the other, there are Judicial Commissionerships and sents on High Court Benches. Such is the normal career of a Civilian, but this, by no means, completes the account of his prospects, for nearly one-fourth of the service is, as a rule, employed in postssome reserved and some not—out of the regular line. A number of Civilians are employed in the Imperial and Provincial Secretariats, some are in political employ in the Native States, others hold responsible positions in the Customs, Police, Salt, Post Office and other departments, or supervise big municipalities and public trusts,

The Civilian may retire after 25 years' service and in the ordinary way must retire on reaching the age of 55. He contributes throughout his service to a pension which is fixed, regardless of whether he has risen to be a Lieutenant-Governor, or has remained at the foot of the ladder. Every Civilian, moreover, married or single, subscribes to an annuity find which provides for the widows and orphans of deceased members of the service.

Public Services Commission.

In July, 1912, it was announced that the King had been pleased to approve the appointment of a Royal Commission to examine and report upon the Public Services in India. The Royal Commission was constituted as follows:—

Uhairman.—The Right Hon. Lord Islington, R.C.N.G.

The Earl of Ronaldshay, M.P.

Sir Murray Hammick, R.O.S.I., O.I.E., Indian Civil Service.

Sir Theodore Morison, K.C.I.E., Member of the Council of India.

Sir Valentine Chirol.

Frank George Sly, Esq., c.s.i., Indian Civil Service.

'Mahadev Bhaskar Chaubal, Eaq., C.S.I., Member of the Governor of Bombay's Executive Council.

Gopal Krishna Gokhale, Esq., C.I.E., Member of the Viceroy's Legislative Council.

Walter Culley Madge, Esq., C.I.E., Member of the Viceroy's Legislative Council.

Abdur Rahim, Esq., Judge of the Madras High Court.

James Ramsay MacDonald, Esq., M.P.

Herbert Albert Laurens Fisher, Esq., Fellow and Tutor of New College, Oxford,

The Terms of Reference were as follows :-

To examine and report upon the following matters in connexion with the Indian Civil Service, and other civil services, Imperial and Provincial:—

- (1) The methods of recruitment and the systems of training and probation:
- (2) The conditions of service, salary, leave, and pension.
- (3) Such limitations as still exist in the employment of non-Europeans and the working of the existing system of division of services into Imperial and Provincial:

and generally to consider the requirements of the Public Service, and to recommend such changes as may seem expedient.

Work of the Commission.—The Royal-Commission visited India in the cold weather of 1912-13, and toured extensively in India, including Burma, confining their attention mostly to hearing the ovidence of and relating to the Indian Civil Service. They subsequently sat in London and in October, 1913, again left for India to enquire into 28 Services other than the Indian Civil and the Provincial Services. They assembled first at Delhi on November 3rd, and examined Imperial officers and witnesses from the United Provinces, the Punjab and the North-West Frontier Province. They then assembled at Calcutta in the middle of December, to hear witnesses from Bengal, Bilhar and Orissa, and Burma.

Early in February the Royal Commission went to Madras, and completed the tour at Bombay, where witnesses from Western India and the Central Provinces were heard.

The Commission returned to England in the spring of 1914, and drew up a report of which publication was delayed on account of the war, until January, 1917. This report is a large blue book of 529 Fages. The actual report of the Commissioners, with their recommendations, runs to 65 pages. but the annexures covering the various departments occupy 300 pages. Special minutes relating to the report by members who sign it take up 22 pages, while a long minute, which really constitutes a separate report, by Mr. Abdur Rahim, of the Madras High Court, who regrets he has been unable to agree in the tenor of report or accept the more important of the conclusions of the commissioners, runs to no fever than 94 pages.

Conclusions —The Commission at the end of their report thus sum up their conclusions:—

At the end of the various annexures to our report we have summarized in detail the recommendations which we have made with regard to each service. The proposals we have put forward for increased expenditure have been tramed without regard to the prior chalms of the present war on the resources of the country, and may need to be given effect to gradually. Otherwise we have taken into account the existing situation. The main conclusions to which we have come are as follows:—

(i) Where it is necessary to organise the public services into higher and lower branches,

this should be arranged on the Units of the work which they are required to do and not, as is now the second should be recruited in Europe. In a small stance, the raws, of the race of, or the second should come required in Europe. It is, undical, public works and so on, in which is the case of the second should come required in Europe. Ideller retrice should ordinarily be given the discus fervice should ordinarily no five the tages opportunities as officers who have been discuss the same fact that the control of the same fact that the same fact Unit incites for appointment to any Post in the section with classes of oments should be the ments for appointment to any port in the form of the annual shared should be shown on the same list and should take sentfilly amongst themselves from their date of Indian of the list. Except in the case of the Indian civil service all promoted officers should also be made full members of the service into Fileh they are prometed (Paragraph 27).

(iii) The practice of employing military omcers on civil duties should be continued in the medical, Public works, railway, and survey of first extend Military, and subject to the ordinary about also in stand departments, and subject to the condi-tions stated Military officers should also be tions stated Military officers should also be eligible for appointment to the mint departition of the mint departition of the matter of the mint departition of the matter of the should be allowed to die out beruiting should take the cradualty in the case of the them should be allowed to die out, but this should take place fradually in the case of the

(ie) The practice of employing members of the Indian civil service in other departments of the indian civil service in other departments of the civil service in the civil servic Should be continued in the Post office, and to the training of the post office, and the post office, and the post office, and the post office, and the post office of the post in the Northern India sait revenues inance and customs departments. Such meian Audico and customs departments. Such officers should also continuo to supervise the work of nipulus aisu coutinuo to suigervise dio work of the land records (Hurma), registration, salt and oxelse, and survey (Madras) departments. They should no longer be appointed directors of and oxciso, and survey (Singles) departments.

They should no longer be appointed directors of Acceptations on the state of th be created and be manned from their ranks. Do ereated and to manned from their ranks. The inspector-generalings of Police should no limit Indian civil servents aloud and civil servents. Continue to Inter the recent of the second continues of the second ce this one for these appointments subject to the claims of qualified police officers (paragraph 20).

The services which he between the higher and the subordinate services should no longer to designated. Provincial services should no longer are designated provincially services, if they should ordinal the designated "Provincial" services anoma no longer its designated "Provincial" services. If they rily bran the name of their Province; for any plantage of their province; for any plantage of their province; for any plantage of the province; the parties of the province; or any posterior of the province of the parties o rity tear the name of their province; for vanueple, the Madras civil service, the Dombay Poles

or Team and the Control of t fire, the sharms civil service, the homesy pouce service, and so on. If they are under the Government of India the terms class I am Government by the tree services of class Than These class I am I the tree services of class I am I the tree services of class I the tree services of class I then ernment of angua wie terms class 1 and class II should be used for the two services. These erms should also be used in the education de-Pariment (Paragraph 30).

(ci) The services for which recruitment is now made normally in India should continue now made normany in angle among community to be recruited for in that country. The In-To no recruited for in that country. Also in dian finance department should be added to this military stands department department. dian innance department should be added to this should be similarly france department should be similarly treated, if there are no military considerations to the contrary. military considerations to the contrary. Even-tually, similar action should be taken with the customs department, but for the present some formulation for the present some should be permitted. The remaining environs recruitment in Europe for this department should be permitted. The remaining services are made substitutes. should be permitted. The remaining services for which recruitment is now made wholly in for which recruitment is now made whomy in Europe or partly in Europe and partly in India, should be divided into three main groups in the standard the Indian statistics. should by drylled into bines them broups. In the first should be placed the Indian civil sorvice and the solution department in which is charieful. and the Police department, in which it should be

in some instances the case, of the race of, or the standards drawn by, their members, or any such states are recounted for continuing to the personnel an admixture of the nestern and castern elements. For these services the encount phonic en recriment in Lurore. In the econd phonic come ecrytees like the educathe recommendation comments and so on in which have in the personny an admixture or both nestern and eastern elements. For these services action and case of recommentation and the services at the services about 10 made for recruitment in arrangements among the many for recrument in both constrict. In the third should be placed both countries. In the third should be fracted scientific and technical services, such as eriam averame and octanical services, and assistant and the agricultural and civil veletinary departments. the agricultural and civil whenhars defariments, cete. for the normal regularments of which it cre, for the normal tenunements of which is slightly be the nim to feeful eventually in India. To this end characterial institutions should be developed in India on a level with those now existing in Lurope so as to produce the necessary

cassing in Lumpero at to produce the necessarily of candidates (foregraphs 31 and 32). (cii) No system of state scholarships will provide a suitable method for increasing the number of non-Europeans in the public ser-

(rtii) In certain sorvices arrangements should (riti) in certain services arrangements shown be made for the appointment of a minimum transfer of the state number of Indians, but this should not be made Authors of indians, our this mivula hor or made a scriptal practice for fear that the minimum mana Scholar Practice for your vint the minimum may come to be regarded as a maximum (para-Graph 33).

(ix) To secure an increase in the number of non-Europeans employed, so far as this is not make the management of the management obtained automatically by the proposals made obtained automatically by the proposals made with regard to organization and the place of appointment, different methods should be followed in different services, as detailed in the annexures. Speaking generally, technical the annexures. Speaking Scherally, technical institutions in India should be created or ex-Printerious in india should be created or ex-Pangea; provision anomy or many for suverappoint of togetre on the committies which will odded on the coloring of committees which will only on the coloring of committees which will adviso on the solection of rectalis; and find surpo on the solection of regulars; and, mainty, the statistics relating to the employment of 13, the statistics relating to the employment of mombers of the various communities should be Published every ten years (paragraph 36).

(x) The question of the extent to which the services should be manned by the direct recults services should be manned by the direct recruitment of untried officers and of the promotion of experienced officers from an inferior service of experienced outcers from an interior service as should be settled separately for each service as the service anong do setting separately for each service, as explained in the various annexures. But it is oxpuned in the various annexers. But in every case opportunities should be created for every case opportunities should be created for young men, and direct recruitment should be Young men, and affect recruitment should encouraged wherever possible (paragraph 37).

(xf) In the present conditions of India no general system of competitive examinations as sements operar of competitive examinations as a means of entry to the public services is suitas means or energy to the public services is suiteable, but where such a method exists it should ordinarily be maintained (paragraph 42).

(xii) When nominating direct recruits for admission to the services the authorities in agmission to the services the authorities in India should act with the advice of committees in the services are services in the services of committees of committe which should not be purely departmental in cather advantage of the standard contain persons touch of the standard in the standard contain persons and a standard contain persons and a standard contain cather and a standard contains and a standard contains a standard maracter, our should contain persons in vouch with educational institutions, and should also With Couchional Institutions, and should also have a non-official and an Indian Chement. nave a non-ometal and an indian ciciment.
Publicity should be given to all vacancies, and Audicity should be given to all vacancies, and applicants should be forbidden to bring outside the form on individual manufactures. applicants should be followed to oring outside Pressure to Dear On thurstoon; members of the committees. A similar procedure should be followed to the committees. and the Police department, in which it should be be identical for all candidates, but the star recognised that a preponderating proportion of for all should be the same (paragraph 45). Committees, Asimusi processio suoma De 101-lowed in England. Candidates for services re-Jowed in Luginia. Candidates for services re-crifted in India should ordinarily possess min-contractional analisation white word not emited in india should ordinarily possess minimum educational qualification. This need not mum adventional qualification. This need not be identical for all candidates, but the standard

taken to draw upon the widest possible field (paragraph 45).

(xiv) Arrangements can best be made for communal representation in India by the exerclso of the powers of Government under the system of nomination proposed. No hard and fast rule or proportion is sultable (paragraph 40).

(xv) Except where otherwise provided, direct recruits should be on probation for two years. A probationary course in England should be given only to recruits for the Indian civil and forest services, and in the latter only for so long as recruits are taken from Europe. As the schools of forestry of the United Kingdom are developed, recruits from Europe should be taken from them (paragraph 47).

(xvi) The question of training requires to be considered for each service separately, as explained in the various annexuns. Inter-provincial conferences of officers responsible for the training of recruits should be encouraged (paragraph 48).

(xrii) In fixing the salaries of their employes, Government should pay so much and so much only as is necessary to obtain recruits of the right stamp, and to maintain them in such a degree of comfort and dignity as will shield them from temptation and keep them efficient for the term of their service (paragraph 49).

(zviii) Except where otherwise expressly provided, officers should be remunerated by an incremental scale of salaries on the compartment system. Where this is done the rules with regard to acting allowances should be revised (Paragraphs 50 and 51).

(xix) Exchange compensation allowance should no longer be paid, but generally speaking the amounts now drawn on this account should be added to the salaries of officers (paragraph 52).

(xz) The salaries to be paid to Europeans and statutory natives of India respectively should be settled for each service separately and ordinarily in accordance with the principle set out in item xviiabove, and not on any general consideration of race or place of recruitment. In services in which different rates are found to be suitable they should be fixed on the merits of each case, and no proportion should be laid down generally as between the amounts payable to the two classes of officers. In services the normal requirements of which will eventually be met in India, the standard scale of salaries should be that considered suitable for statutory natives of India, and special rates should be fixed for Europeans for so long as they are recruited. In certain services in which equality of pay has ong been an established practice this should be naintained. In other services officers should be brought to an equality in the administrative ranks, and earlier in the education department. As a special case statutory natives of India recruited in Europe should be paid as Europeans (paragraphs 53 to 57).

(xxi) The salaries to be paid to officers should be as stated in the various annexures. For re-cruits in India from the ordinary graduate class, or their equivalent amongst members of the domiciled community, a general scale rising |

(ziii) In recruiting specialists care should be from R₃, 250 to R₃, 500 a month should be ken to draw upon the widest possible field introduced. Beyond this there should be selection scales of posts suitable to the circumstance of each service. For services requiring higher initial qualifications higher rates should be adopted (paragraph 58).

> (xxii) The necessary steps should be taken to keep the cadres of the services up to a strength sufficient to cope with the work to be done (paragraph 61).

(xxiii) The calculations in accordance with which recruitment is made should be worked out with greater precision, and should be revised periodically with due regard to the requirements of leave and training. More precision is needed in fixing the annual rate of recruitment, and service tables should be prepared and kept up to date for each service or group of services. Distribution lists should be maintained for all services, which are re-cruited on a system, to show by groups of years the theoretical and actual number of officers present. Excesses or defects should be dealt with at the point where they occur. If in spite of these measures blocks in promotion are experienced, special allowances should be given on the merits of each case (paragraphs 01 to 05).

An expert committee should be ap-(xx(v) pointed to simplify the present travelling allowance rules, to consider their sufficiency for everyday purposes, and to revise the classi-fication of officers. Immediate measures should be taken to reimburse officers for all reasonable charges incurred by them on transfer from one station to another, whether personal to themselves or on behalf of their families and household establishments (paragraphs 66 to

(xxv) The rules as to house allowance should be revised on the lines indicated (paragraph 69). (xxvf) A Burma allowance should be given

on the terms stated (paragraph 70).

(xxrif) Free passages should be given to officers of the services specified (paragraph 71).

(xeriii) Inofficient officer should be compulsorily retired (paragraph 72).

(xxix) Officers who are subject to the operation of article 459 of the civil service regula-tions should be retired at the age of 55, unless Government, in their sole discretion, decide to grant an extension of service (paragraph 73).

(xxx) There should be separate European service and Indian service leave rules to regulate the taking of long leave. Speaking generally, officers recruited under European conditions of salary should be subject to the European, and others to the Indian service leave rules (paragraphs 77 and 78).

(xxxi) The European service leave rules should be simplified, and greater facilities for leave on higher pay should be given by allowing privilege leave to be accumulated up to four months and furlough to be commuted subject to the restrictions stated (paragraphs 70 and 80).

(zerii) The sterling amounts of the allowances payable under the European service icave rules should stand to the rupee amounts in the proportion of 18 to 10 (paragraph 81).

(excit) The Indian service leave rules should be simplified; officers subject to them should be allowed to accumulate privilege leave up to four months, and the allowances Permissible should be increased to the extent stated (paragraphs 82 and 83).

(xzrir) The rules relating to study leave should be revised; the arrangements for deputing officers to study particular problems should be made more elastic, and facilities should be given to officers on leave to study voluntarily such problems as interest them (paragraphs 84 to 86).

(xxx) With the exceptions specified all officers should be under the same pension rules; all should serve normally for thirty years, but those recruited after the age of twenty-five in the services noted should be granted the concessions indicated, and all should be able to retire optionally on a reduced pension after twenty-five years' service. Government should be able to retire any officer after this period (paragraphs 57 to 91).

(azzei) The maximum limits of pension should be increased on the conditions stated and special additional pensions of amount stated should be drawn by the officers noted (paragraphs 02 and 03).

(zzzzii) A scheme for a general family pension fund, or for separate funds for different classes of officers, should be worked out on a self supporting basis (paragraph 96).

Temporary Provisions.

In October, 1015, a Bill was introduced into the House of Lords, entitled "An Act to crabble persons during the continuance of the War, and for a period of two years thereafter, to be appointed or admitted to the Indian Civil Service without examination." The following is the text of its provisions:—"(1) The Secretary of State in Council may with the advice and assistance of the Olvil Service Commissioners make rules providing for the admission and appointment to the Indian Civil Service by the Secretary of State in Council, during the continuance of the present war and for a period not exceeding two years therefactions with respect to age and otherwise as may be prescribed by the rules, notwithstanding that they have not been cortified as being entitled for appointment as the result of examination in accordance with the regulations and rules made under section thirty-two of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India Act, 1868, and section ninety-seven of the Government of India

aforceaid; and (b) a person shall not be appointed to the Indian Civil Service under the rules made under this section unless the Civil Service Commissioners certify that by such means as may be prescribed by the rules they have satisfied themselves that in their opinion he possesses the necessary educational qualifications.

The provisions as to the laying before Parliament of regulations and rules made under the said sections thirty-two and ninety-seven shall apply to the rules made under this section.

This Act may be cited as the Indian Civil Service (Temporary Provisions) Act, 1915."

In the debate on the second reading of the Bill, Lord Islington explained that this was an emergency Bill introduced to meet the difficulties created by war conditions. Government asked Parliament to authorise the suspenilon of the statutory system of open competition on two grounds. They wished to prevent any deterioration in the class of officers to be recruited for the LC.S. and they sought power to provide a method by which those who were fighting at the front should as far as possible be protected from losing their careers as Indian Civil Servants owing to their patriotic action. The Bill sought to secure those ends. Government was anxious that no injustice should be done to Indians and therefore contemplated that, if with the examination of one-fourththere was not as a result the same proportion of Indians successful as had been the case in former years, that number would be made up by selection hereafter. Provision for this was to be included in the rules formulated to give effect to the Bill. In the debate which followed Lord Macdonnell argued that the process of selection in the case of Indians could be far better carried out in India than in Whitehall. The work, he said, naturally fell within the functions of the Viceroy, who could command the best information as to the relative merits of candidates, and in India where the field of choice would be so much wider. Lord Islington argued in reply that the unsuccessful Indian candidates had a right to be considered. Lord Macdonnell further raised the question of the composition of the Selection Board and moved an amendment under which the board would consist of net more than nine members, including the First Civil Service Commissioner, a member of authority in public affairs, and representatives of the Universities and the public schools. On the suggestion of Lord Sydenham, he added that there should be at least one member with a knowledge of India. By an amended sub-section it has been provided that no person shall be appointed to the LOS, unless the Secretary of State, acting with the advice of the Civil Service Commissioners, is satisfied that he possesses the necessary adventural analysis. The design is sary educational qualification. The design is to check any arbitrary use of the powers of the Secretary of State, and to prevent favouritism

THE INDIAN MEDICAL SERVICE.

the Government of India consists of some seven hundred and sixty-eight medical men recruited in England by competitive examination; and has as its primary duty the care of the native troops and of the British Officers and their families, attached to them. But in the course of rather more than a century and a half other duties and responsibilities have accrued to it, so that there are in addi-tion the provision of medical aid to Civil Servants and their families, the administration of the civil hospitals of the large towns, and the supervision of the numerous small dispensaries provided either by the Government or private charity for the inhabitants of the Lacter villages. Moreover, the Service pro-Ander Villages, and cover, the outside pro-vides for the sanitary control of largo areas, dealing with the sanitation of towns, protec-tion of water supplies and the prevention of epidemic disease. It is also represented in the Native States by the Residency Sucreou, and in Persia by the Medical Officers to the Reliable Compiletes. The Last Department is and in Perin by the Monical Officers to the British Consulates. The Jall Department is also administered in great part by Indian Medical Officers, generally in the dual capacity of Medical Officer and Superintendent; and up to quite recently the Officers in the Mints have been recruited from members of the medical profession. Lastly, the Service provides the men who are encaged in original vides the men who are engaced in original research on diseases of trupical importance at the Bacteriological Laboratories which have arisen in India during the last fifteen years, and others who as Professors at the large medical calculations and others who as Professors at the large medical calculations. cal schools have had the task of creating an indigenous medical profession which will make permanent throughout the Indian Empire the civilising influence of Western Medicine.

This remarkable combination of duties and responsibilities in a single Service has slowly explyed from the system, initiated in quite early days by the old East India Company, of providing "Ch'urgeons" from England, carly days—by the old East India Company, of providing "Ch'urgeons" from England, on the nomination of the Board of Directors in London, for the care of the people and soldiers in the Indian "Factories," and on the chips trading with the East. Besides these men the Company maintained several medical services, including those of St. Helena, the West Coast of Sumatra, Prince of Wales Island, and the China Coast. The Surgeons on the Company's Indiamen were frequently utilized for emergent work in India, as in the case of the Mahratta War of 1780 and other millitary operations of that time, for days with troops, and sometimes to fill vacancies will be examined by the styled "civil surgeons."

the Indian Medical Service. They may be married or unmarried. They must possess, under the Medical Acts in force at the time in Chips and or Iralian and Iraliand. No candidate will be permitted to compete more than three times. Candidates for the January examination in each year must be between 21 and 28 years of age on the 1st August.

The candidate will be examined by the Examining Board in the following subjects, and the highest number of marks obtainable will be distributed as follows:—

Organisation.—The Indian Medical Service practically dates from the year 1764 when the scattered medical officers serving in India were united into one body: later, this was divided into the three medical "Es-tablishments" of Bengal, Madras, and Bom-bay. In 1766, the Medical Service was divided into two branches, military and civil, the latter. being regarded as primarily army medical officers, lent temporarily for civil duties, in

The Medical Service under the control of which they formed a receive for the Indian is Government of India consists of some Army, and were consequently liable to recall at any time. This position was confirmed by the Council of Lord Cornwills in 1783; and has been in existence ever since with great advantage to the nilitary authorities in times of military stress. In 1803, the officers of the Service were given military mank, and since 1905 all the names have been borne on one ilst, though men on entering the service are allowed to elect a Presidency in which they will serve on entering the Civil Department.

> The Bervice was thrown open to indians by the India Act of 1853, the first competitive ctamination being held in January 1855, when the list was headed by a Bengalee student who subsequently attained distinction. It was calculated by Lt.-Col. Crawford, I.M.S., (the talented historian of the Service) that thom January 1855 to the end of 1916, eighty-nine men of pure Indian extraction had entered the Service. The proportion now thows signs of yearly increase. The total number of Indians at present in the Service s a little more than five per cent of the whole; while, of the successful candidates during the past five years, 17 6 per cent, have been men born and bred in the country.

> Method of Entry.-Entrance into the Service is now determined on the results of competitive examinations held twice a year in London, the Regulations regarding which, and the rates of pay, rules for promotion and pension relating thereto, may be obtained on application to the Military Secretary at the India Office. Candidates must be natural-born subjects of His Majesty, of be natural-born subjects of his hajesty, of European or Last Indian descent, of sound bodily health, and, in the opinion of the Secretary of State for India in Council, in all respects suitable to hold commissions in the Indian Medical Service. They may be married or unmarried. They must possess, under the Medical Acts in force at the time of their expeditment a qualification red-

- (1) Medicine, including Thera-.. 1,200 Marks. peutics ...
- (2) Surgery, including diseases 1,200 of the eye
- Anatomy and (3) Applied 600 Physiology ...
- (4) Pathology and Bacterio-000

(5) Mitwifety and Discourset Wettern and Cl.Blind ...

(f) Materia Melica, Plarmaectory and Tusterings ...

N.R.-The Examination in Mclifine and i Butery will be in part practical, and will by take operations on the dead, byly, the appliration of surgical apparatus, and the examination of modical and surpleal gattents at the bodel to.

Having called a place at the entrance examt surgical authority in a large district consist-nation, the successful candidates will be comthe stand as illustrants on probation, and will the varied experience obtained in India by the gravited about a month's leave. They will the members of the Civil Medical Department, then be required to attend two successive this official is generally a man of the highest courses of two months each at the Royal Army Melical College, and at Aldershot respectively.

apprinted to the Indian Medical Officers: Service will be placed on one list, their position on it being determined by the combined results of the preliminary and final examinations, They will be liable for military employment in day part of India, but with a view to future transfers to civil employment, they nill stand peated to one of the following civil areas:—(1) Madras and Burma, (2) Hombay, with Aden; (2) Upper Provinces, Go., United Provinces, Publish and Central Provinces; (t) Lower Provinces, i.e., Bengal, Bihar and Orissa and Assam.

The allocation of officers to these areas of employment will be determined upon a consideration of all the circumstances, including as far as possible the candidate's own wishes.

The whole course lasts for four months, after which the duly caretted Lieutenants proceed to India, and for the first years of their rervice are attached to native regiments in any part of the country. The doctor is an officer of the regiment, as was the ease in the old days of the Army Medical Department, Of late years it has been proposed to form the members of the Service into a corps on the lines of the British Medical Service, by forming station ho-pitals for native troops, thereby releasing the doctor from regimental life. This reform appears to have fallen through for the present, but is likely to be brought into operation within a very few years. Several appointments in the Civil Department are now reserved for Indians recruited in the country.

Organisation.—The Head of the Service is the Director General, who is an official of the Government of India and its advice on medical matters. He is also concerned with questions of promotion of officers to administrative rank, and of the sciention of men for admission to the civil department. Attached to his office and under his general supervision is the Sanitary Commissioner with the Government of India, who is to have the control of the new Sanitary Service, a department which is undergoing enlargement and re-arrangement. In each Presidency or Province there is a local head of the civil medical service and medical adviser of the local administration, who is either a Surgeon General, or an Inspector of Civil Rospitals of the rank of Colonel. The medical service

1 Branch and the purely professional. The of Districts, who by kreping large tracts of country under observation are in a position to advice their respective governments of the existence of epidemics, and on the proper in those of draling with them and of preventby their spread. It is, however, through the Civil Surgeon that the visitor to India nill come in confact with the Service. This official is comething more than a general practitioner, as he is expected to be the leading medical and this official is generally a man of the highest professional attainments, especially so in the case of those senior men holding appointments in the larger towns. His duties are to give medical aid to the civil servants and freat families, and to administer the hospital which has been provided by Government in each headquarter town. In many cases too he will have the additional clarge of the local Jul, and be the Sanitary Adviser of the Municipality. Accustomed to meet the most serious emergencies of his profession, and to rely entirely on his own skill and indement, the Civil Surgeon in India has given to the Indian Medical Service a reputation for professional efficiency which cannot be excelled by any other public medical service. Travellers in Inits falling sick within call of any of the larger towns can therefore rely on obtaining the highest professional skill in the slupe of the ordinary Civil Surgeon of the I. M. S. There have lately been signs that the popularity of the medical service of India is waning in the medical schools of the United Kingdom, and consequently there is a suspicion that a class of man is now entering it of a somewhat lower type than that which has made the Service famous.

A Parliamentary Paper containing correspondence between the Government of India and the Secretary of State, on the promotion of an Independent medical profession in India and the possibility of limiting or reducing the endre of the Indian Medical Service, was published during 1914. Writing in 1910, the Government of India said that it was important of the numerical terms of the property of the programment of practicable to make any reduction in the num-ber of Indian Medical Service officers employed solely on civil duties, that is to say, those not An independent belonging to the war reserve. An independent profession trained on western lines was growing up in India but had to overcome its universal rival in the shape of halims and others trained in indigenous methods: Government could do much nousenous incurous: Covernment could do much to encourage the growth of this profession by making provision for the registration of medical practitioners qualified according to western methods. The Secretary of State, replying in November 1012, said that he was unable to contemplate any substantial reduction in the Indian Medical Secules. tion in the Indian Medical Service. As for the independent profession, he trusted that the experience of the working of the Bombay Registration Act might justify the introduction of similar legislation for other Provinces. He considered that the Indian Medical Bervice each province consists of the Sanitary should be restricted to the military needs of ...

the country both on account of economy and in order to increase as far as possible the number of important posts held by Indians; he was prepared to consider each new appointment on its merits, but any proposal for an is inevitable, and such expansion should not, increase in the civil posts included in the cadre of the Indian Medical Bervice would be subjected to the closet scrutiny. In reply to that despatch, the Government of India wrote in

March, 1914 :- "In view of the growing medical needs of the country which necessitate the employment of a larger staff of medical officera, some expansion of the Indian Medical Service is inevitable, and such expansion should not, in our opinion, be regarded from a different standpoint from the enlargement of any other

Pay and Allowance.—The following are the monthly rates of Indian pay drawn by officers of the Indian Medical Service when employed on the military side :-

Rank.		Vacmployed Pay.	amde Pay.	staff Pay.	In Officiating Medical Charge of a Regiment,	In Permanent Medical Charge of a Regiment,
		Rs.	Re,	Rs.	Rs.	Rr.
Lieutenant		420	350	130	425	500
Captain ,, after 5 years' sorvice	• •	475 475	400 450	150 150	475 525	. 550 600
" after 7 years' service	٠.	••	500	150	575	650
" after 10 years' service		**	550	150	625	. 700
Major after 3 years' service as Major	••	••	650 750	150 150	725 825	000 800
Lieutenant-Colonel.	• •	••'	560 500	350 400	1,075 1,100	1,250 1,300
,, specially selected for in creased pay.	•	••	1,000	400	1,200	1,400

Pensions and Half-Pny.—Officers are allowed to retire on pension on completing 17 years service, the amount they receive varying with the precise number of years they have served. The lowest rate for 17 years' service is £300 per annum, and the rate for 30 years £700 per annum. The increases in pension for each additional year's service over 17 are somewhat higher in the last 5 than in the first 8 of the 13 years between the shortest and longest periods of pensionable service. All officers of the rank of lieutenant-colonel and major are placed on the retired list on attaining the age of 55 years: the greatest age to which any officer can serve being 62.

. •	Approxi- mate	Salary per Mensem.				
Principal Civil Appointments.	Number of Appointments in each Class.	When held by a Lieutenant- Colonel.	When held by a Major	When held by Captain.	When held by Lieute- nant.	
	1	Rs.	Rs.	Re.	Rs.	
Inspectors General of Civil Hospitals Sanitary Commissioner with Government of India	6	2,250-2,500 2,000-2,500		: :	,	
Inspectors-General of Prisons Principals of Medical Colleges	8 5	1,500-2,000 1,050-1,800	1,200-1,300	,		
Professorial Appointments Sanitary Commissioners	82	1,500-1,650 1,250-1,800	1.050-1,150 for all ranks.	800-950	,780	

Pensions and Half-Payments.

	Arrmale	fallip per Men em.				
Principal (Tail Appringnents,	Nur lex of Upsint- nexts in each Cines,	Wien L II 15 A Instensite Coten I.	Whinte Major.		When held by Lieuto mant.	
Legaty Fanitary Commissioners	13	1,450-1,597] 1,65K=1,169	ويونديمسون ت	700	
Barteit deglest Ar geletments	21	1,249-1,000	1,059-1,150	700-550	650	
Experiates tents of Central Lunstie	6	1,400-1,510	1,050-1,150	200-010	C50	
Assisms Experimendents of Central Gauls	21	1,000-1,000	F39-1,030	con-850	,550-000	
Civil Farroscies (Pint Care)	57	1,500-1,450	E50-950	600-750	650	
Civil Surpreneles (Second Class)	. 171	1,000-1,000	730-650	500-659	450	
Probationary Chemical Examiner	1			600-750	550	
Officers deputed to Plague Duty	20	1,450	1,000-1,100	750-000	700	

PUBLIC WORKS DEPARTMENT.

In November, 1919, a committee of inquiry; the various sub-divisions of the Buildings and was appointed, under the profilery of Mr. Hoads Branch,—anitary, architectural, the F. G. Siy, I.C.S. to have sticate the orangestion in trical and civil engineering are satisfactory, and system of administration of the Buildings (5) Whether forther decommission within and Bends Branch of the Public Works Department. The Committee is instructed to inquire into the following, among other points:-

(1) Whithir the methods at present adopted for the execution of civil works are economical and rultable for the purpose for which they were devised.

(2) Whether under the existing system private enterprise is sufficiently encouraged and whether it is possible and desirable to entrust the construction and upkerp of certain classes of public works to an agency other than departmental, and Her upon what lines such change should be effected.

(5) Whether any changes recommended by the committee necessitate any modification of the organization of the staff of the Public Works

(3) Whether further deeptraliestion within the Public Works Department itself is desirable and if so to what extent and in what directions.

(6) Whether the Public Works Department Coil, which rightates the execution and maintenance of civil works, is unduly natrictive and if so in what direction a change is d sirable.

(7) Whether the system of education in Covernment engineering colleges is organized on a sufficiently broad hads to meet the needs of private ag ney, as well as of Government; whether it attracts suitable candidates and whether the standard of instruction is sufficiently advanced to provide fully qualified civilence-nees for employment by Government, local boiles, and private engineering and contracting firms, and if not in what directions and to what extent improvement is required.

Department, and if so what.

(4) Whether the Pablic Works Department the protection of a second the provision is made for meets the needs of other departments of admit the protection in the free leading of the department of admit the protection in the free leading of the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the provision is made for meets the needs of other departments of admit the needs of other departments of admit the needs of th

Pilot Services.

Appointments to the Bengal Pilot Service, pointments must not be less than 18 and notice to made by the Secretary of State for India more than 22 years of age. They must promand by the Government of Bengal; the latter duce a Board of Trade or Colonial Certificate of appointments are limited to Anglo-Indians Competency as a Second Mate, or any higher and Eurasians, and are made under separate grade, for a foreign-going ship, and evidence regulations. In the case of appointments of having served at sea not less than two years made by the Secretary of State, preference is in a sounre-igned saliton vessel of over 200 made by the Secretary of State, preference is in a square-rieged sailing vessel of over 500 given, cateris parlius, to candidates who have tons. The rates of pay and allowances of payed through one of the training ships "Worterster" and "Coway."

Leadsmen Apprentices while on duty are as follows, without exchange conversions also ships the content of the content o Candillates for the Secretary of State's ap- lowance:—

When on the running list:-

Rs.

Junior Leademen ...107 a month Second Mate Leadsmen First Mate Leadsmen ...

..135 a month ..160 a month

When employed as Chief and Second Officer - time, respectively, make in regard to discipling Chief Officers of pilot vessels, its. 160 a menth.

As Second Officers of pilot ves-Fuls

Es. 135 a month.

Plus a meas allowance of Rs. 40 a month.

After five years' service a Leadsman Apprenthe is allowed to appear at an examination to qualify him for appointment as Mate Pilot, but if he shows exceptional ability, and has passed tach previous examination on his first attempt, hears a very good character, and is otherwise well reported on, this period may, with the special canction of Government, be reduced to 41 years. After three years' service as Mate Pilot, he is permitted to go up for an examination to qualify for appointment as Master Pilot, and, if successful, is promoted to that grade on the occurrence of a vacancy. Vacancies which occur in the grade of Branch Varancles which occur in the grade of branch more than 32. They must hold certificate filled by promotion from the Master more than 32. They must hold certificate filled by promotion from the Master and competency as Master and excellent testificate grade, of more than 32. They must hold certificate the filled filled by the description of competency as Master and excellent testificate grade to hellow that a Pilot ability. They will be examined in the Port Office filled by the competency of the properties by the is, owing to physical unfitness of any kind, a incapable of discharging his duties properly. it arranges for his medical examination and takes such action as may seem desirable when the results of that examination are commuilitated. In particular, Pilots are medically examined after the occurrence of any accident to the vessel in their pilotage charge, if the electronistances tend to show that the accident was in any way attributable to physical unfitness on the part of the Phot.

Pilets are not entitled to any salary while on filetary duty, but receive as their remuneon flotter day, but receive as their temmeration a chare, at present 50 per cents, but liable to alteration at the discretion of the Government of Beneal, of the pilotage dues Plus 50 per cent of the lead money collected from the ships on which they do duty.

leave, leave allowances, number of officers in the service, distribution into grades, tonnage of ships to be allotted to the several grades, etc., and in all respects he is amenable to such orders as may be passed by the Government of Beneal, and is liable to degradation, superior of Beneal, and is liable to degradation, superior of the control of the con sion and dismissal by the Government of Bengal for any breach of such rules or orders, or tor ml-conduct.

Other Pilot Services .- Beneal is the only province that has a covenantel puot service; elsewhere pilotage is under the control of the heeal Port Trust. In Bombay, for example, the Port Trust have drawn up the following rules for entry into the service:

To be elicible for admission to the Bombay Pilot Service, candidates must be British Subjects, and at least 21 years of age but not more than 32. They must hold certificates of competency as Master and excellent tests for form and colour vision as prescribed by the Board of Trade, and also an extra form vielon test of each eye separately and must meters an examination by, and produce a certificate from, the Hedical Officer appointed by the Port Trustees that they are physically fit and are of a sufficiently leady or strong constitution to professional Philadelphia. atitution to perform a Pilot's duty and that they to all appearance, enjoy good health day Probationer may, with the nanction of the Port Officer, go before the Examining Commilitee, and if he proves he will be eligible for appointment as a 2rd Grade Pilet when a vacancy occurs. A Probationer, not passes the required examination to qualify for her forming a Pilot's dorlers and the results. forming a Pilot's duties within six mostly Government of Beneal, of the pilotace does after the date of his appointment, is into the pall by stiller libited by them. The Government be struck of the list. Promotive to the mount of Beneal reserves to itself the tick to rice studes in the Pilot service is sended require all Filots to obtains a Home Trade river by sembodity, but the Port Tractor For Master Mexicar's Cordinate before they are serve to themselves the richt of pasting of promoted to be Sender Master Pilota. Every any Pilot. There are 15 Pilota, six is sended as the Government of India or as the of vessels pilotal. The ascence ray of Government of Beneal under the eccutrol of, bit Grade Fulct is about Re. 800, 2nd Government of India, may from time to, about Re. 750 and of Grade about Re. 600.

The Press.

tially English institution and was introduced thally English infiliation and was introduced the Marquis of Hartings who in 1818 abolished toon after the task of organising the admittee the consorbing and substituted milder rules, initiation was seriously taken in hand by the This change proved beneficial to the status. English in Bengal. In 1773 was passed the of the press, for henceforward reli-respecting Regulating Act creating the Governor-General-thip and the Supreme Court in Bengal and within seven years at the end of the same de-cade, the first newspaper was started in Cal-cuita by an Engli-liman in January 1780. Exactly a century and a third has clapsed tince, not a very long period certainly, a period almost measured by the life of a single newspaper, The Times, which came into existence only five years later in 1785; but then the only five years later in 1785; but then the period of British subremacy is not much longer, having commenced at Planey, only twenty-three years earlier. Bombay followed Calcutta closely, and Madras did not lag much behind. In 1789 the first Bombay newspaper appeared, The Bombay Herold, followed next year by The Bombay Courier, a paper now represented by the Times of India with which it was analgamated in 1861. In Bombay the advect of the newspaper are the call to have the advent of the press may be said to have followed the British occupation of the bland much later than was the ease in Calcutta. In Calcutta the English were on sufferance before ! Placey, but in Bombay they were ab-clute: masters after 1665, and it is somewhat strange that no Engli-hunan should have thought of starting a new-paper during all those hundred; and twenty-five years before the actual advent of The Hemid. an name was salled The Denost :

The newspaper Press in India is an esacn-; regulations continued in force till the time of the Marquis of Hartings who in 1818 abolished

and able men becan slowly but steadily to join the ranks of journalism, which had till then been considered a low profession. Silk Bucklugham, one of the ablest and best known of Anglo-Indian journalists of these days, availed hime if of this comparative freedom to criticise the authorities, and under the short administration of Adam, a civilian who temporarily occupied Hasting's place, he was deported under rules spicially passed. But Lord Amberst and still more Lord William Bentinels were persons of broad and liberal views, and under them the press was left pracethally free, though the exist dicertain right lations which were not enforced, though Lord Clare, who was Governor of Bombay from 1831 to 1835, once strengly but in value urged the latter to culture them. Metalfi who succeeded for a brill period Bertirok, removed even these regulations, and prought about what is called the emancipation of the pre-in India in 1-35, which was the legicity of a new era in the history of the Indian press. a new era in the fictory of the Indian prise, Among papers that came into being, was the Bartlate Tieses which was started towards the close of 1-25 by the feeding reserving Roming, and which in 1-61 claused frestantothe Times of India, The Box law Greeks, founded in 1701, cased publication in 1514.

was originally published in Simin as a neckly Paper, the first fraue being dated June 22nd, 1872. Prior to and in the days of the Mutiny the most famous paper in Northern India was the Mofundide, originally published at Meernt, but afternards at Agra and then at Ambala. After a lively existence for a few years in Simia the Ciril and Milliary Gazette acquired and incorporated the Mofuscilite, and in 1877 the office of the paper was transferred from Simia to Lahore, and the Gardie began to be published daily. During Lord Lytion's viceropalty a reactionary policy was pursued to-wards the vernacular press which was res-trained by a special Act passed in 1878. With the advent of Lord Ripon in 1880, the Press Act of Lytton was repealed in 1882. The The influence of the native press capecially grew to be very great, and its circulation too re-

fluence and also circulation was satisfactory, science a great fillip. This may be said to lave Famous journalists like Robert Knight, James gone on till 1607, when In its entered upon Maclean and Hurtls Monkerll flourished in a directions eyel; of years define which plants this generation. The Civil and Military Gardle and familie gave rise to grave positical directions and families are rise to grave positical directions. content which found exacgrated expression in the native rues, both in the remarks and in Lucileh. The deterioration in the tone of a rection of the press became accentuated as years went on and prosecutions for redition had little effect in checking the sinjeter influence. In 1910 Lord Minto present a Press Act applicable, not like Lytton's Act, to the pecant part alone, but like Canning's measure, to the entire press. This measure is laving the desired effect insenuch as it has undoubtedly checked additions writing in all the provinces where it had previously been most rife. One marked effect of the Act has been to increase the influence and circulation of the moderate popers. There is some tendency, as in Eastern Bengal, to evade the Act by the secret production and distemination of reditions leadets.

· Number of Printing Presses at Work, and Number of Newspapers, Periodicals. and Books Published.

and books rublished.									
Province,							Books,		
			Printing Presses,	News- popers.	Periodi- cals.	In English or other European Languages.	In Indian Languages (Vernacular and Classical) or in more than one Language.		
Bengal Bihar and Oriss United Province	1		758 136 547	157 29 107	206 34 212	395 92 249	2,177 610 1,788		
jab Gunte ulli-	Jenny by		257 52	04 11	113 14	133 17	1,626 188		
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Madras Bombay	** **	•	681 493	(b)242 142	1,747 609	494 137	1,027 1,705		
	Total, 1911	-10	3,237	857	2,927	1,541	10,658		
Totals	1913 1913 1913 1910	-10	3,102 8,020 2,828 2,780 2,751	847 827 673 056 058	2,088 2,848 2,395 2,268 1,902	1,602 1,477 1,662 1,506 1,578	11,477 10,712 0,631 0,933 10,003		
· ,	1905 1905	-8 -7	2,594 2,571 2,490 2,380	738 753 744 747	895 1,062 978 793	1,637 1,524 1,530 1,411	8,345 7,095 8,126 7,614		

⁽a) One ceased to appear in April 1915.

⁽g) For calendar year.

Statles,	Staffons,			Title in foll.			Date of going to Pross.
Bharcaga:		{	Jainhuan "Jaina"	••	**	••	Tamlaye. Weekly.
Bibar (Patna)			Ittehnd	••		••	Wolnerlage
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		(Advocate of Indi Akhbar-1-Islam Akhbar-1-Scribe	• •	••	••	Daily Daily, Daily, except on Sun lays
			Andhra Patrika Argus Associated Press		••	••	Wednesdays.
			Bombay Chronic Bombay Guardia Bombay Samach	170	• •		Dally, Fridays, Dally,
			Briton Cathelle Examin Dyan Prakash	• •	• •	••	Dally, except Saturdays. Thursdays. Dally,
			Griffith's Telegra Gujarati , Illustrated Sport	ing Re	Fient	••	Saturdaya. Saturdaya.
		ĺ	Indian Discrete Indian Investors			• •	Monthly. On the 18th of each month. Fridays.
			Indian National Indian Social Re Indu Prakash	News . former	 12-207		Saturdays. Dally, except Sundays.
Bombay	•••	}	Jaina Jam-e-Jamahed Kalsur-l-Hind	**	••	• •	Saturdaya. Dally, except Saturdaya. Saturdaya 24.
			Messic Heald Messic Times	**	••	••	mant' expekt parcale.
-			Native Opinion O Anglo-Lusitan The Parsi and P	o raja M	litra	• •	Tuerdays. Saturdays. Daily.
•			Rallway Times Rast Goftar Reuter's Indian	Journal	:::		Fridays. Sundays. Daily.
•			Reuter's Telegras Sandreh Sanj Vartaman	m Com	pany, I	.td.	Dally, except Sundays.
			Shri Venkateshw Times of India Times of India II			ely.	Fridays. Dally. Wednesdays.
1		ĺ	Young India United Press Syr	zdicate	**		Weekly.
Bowringpet Budson	::	:	Kolar Gold Fleid Akhbar Zulqarna	s News	-		Tursdays. 6th, 13th, 20th, and 27th of € month.
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1 Interior Table 2010 Person
Indian Field One a month, Indian Methodist Times Wednesdays,
It lian Methodica
Indian Mirror Wednesdays. Indian Mirror Last day of month
In lian Nation Last day of month,
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In lian Nation Daily. Indian News Agency Saturdays.
Indian Public Health Saturdays.
Indo-British Press Agency Saturdays. 15th of each month.
Indo-British Press Agency 15th of each month.
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madan Observer. Railways and Muham. Thursdays.
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Stations.	, ř.	Title In	full.		Date of going to Press.
Calicut	1:	West Coast Reform	••	••	Wednesdays. Tuesdays and Fridays. Daily. Sundays and Thursdays. Wednesdays and Saturdays.
Campore		Azad Cawnpore Journal Englishman Bulket Orifith's Telegram Reuter's Telegram mited, Zamana	Co., Ltd.	4- {	Wednesdays. Daily. Daily. 25th day of every month.
Chinswah Chittagong		Education Gazette Jyoti		•• ;	Tuesdays. Wednesdays.
Cociin	{	Cochin Argus Malabar Herold	•• ••		Saturdays.
gennada		Estl'	••		Thursdays.
	Leg mandreig auspillem 6 maleity	Ceylon Catholic M Ceylon Independer Ceylon Morning L Ceylon Observer Ceylon Sportsman Ceylonese Dinakara Prakash	cader		Daily. Mondays, Tucodays, Thursdays
Colombo		Dinamina Dravida Mifran Irlam Mittiran Sanartha Pradipa		••	and baturdays. Daily, except Sundays. Wednesdays and Saturdays. Saturdays. Mondays and Thursdays
. •		Saravavi Samiares Sivisia Esmaya Sinhala Band-illay Times of Coylon	3		Turedays and Tridays. Mondays and Thursdays. Saturdays. Daily.
Cottack		Cikal Deeplea Niliar	** **		Fridays. Mondays.
Drees		Dacea Prakach	** **	•••	Mondays. Sundays. Sundays. Daily.
Daileding	:	Darjeeling Visiter Indian Delig St Edition).	and Adverti- ws (Durject	eer Ung	Monday*, Daily.
Delma Den		Balletin	**	٠.	Twice Duly,
Pet t	}	Al-Mustanski i Associated Press Durber Bulletin Griffith's Library Hamitard Indian News Apri Momilian Post Library Supplement	nito., lid.		Daily, Daily, Daily, except Soulars, Daily,
Dinirat	}	Pharmareritt Karnataka Paira Karnatakamitta Keheria hamacha Raja Hana	ani Distanj	352 ·	Weiler lays, Entlays, Torriags, Thurster, Dally,

Stations.		Title in fuil.	Day of going to Press.	
Dhulla Dibrugarh	.;	Khandesh Valbhav Times of Assam Englishman Bulletin	Fridays. Fridays. Dally.	
Gaya Guntur : ::	••	Kayastha Messenger	Sundays. Daily.	
Hubli	• •	Kannad Kesari	Fridays.	
Hyderabad, Decean	{	Musheer-i-Decean	Daily. Daily. Daily.	
Hyderabad, Sind	{	Hindvasi Musafir Sind Journal Sind Mail Sindvasi	Daily. Saturdays. Wednesdays. Daily.	
Jafina	{	Ceylon Patriot and Wockly Advertiser. Jaffina Catholic Guardian. Vaszyilan Jaffina Native Opinion Sitbia Veda Pathukavalan	Tuesdays. Saturday Mornings. Fortnightly Fortnightly.	
Jaffna (Vannarponnai)	••	Hindu Organ Englishman Bulletin	Mondays and Thursdays.	
Jubbulpore	{	India Sunday School Journal C. P. Standard	Third Thursday of every month.	
Kakina	••	Rangpur-Dikprokash	Fridays. Tuesdays.	
•		Daily Gazette Karachi Argus Karachi Chronicle Parai Sansar	Dally. Wednesdays. Saturdays. Saturdays.	
Karachi	}	Praja Mitra Phœnix Reuter's Telegram Company, Li- mited.	Tuesdays and Fridays. Tuesdays and Fridays.	
,	l	Sind Observer Sind Sudhar Star of India	Wednesdays and Saturdays. Saturdays. Saturdays.	
Khuina Kolhapur City	••	Khulna Basi	Saturdays. Fridays.	
Kottayam	{	Malayala Manorama Nazrani Deepka	Wednesdays and Saturdays. Tuesdays.	
Kurunegala	٠	Abhinawa Kawata Angana	Days prior to the 1st and 15th of every month.	
Lahore	{	Akhbar-i-Am Arya Patrika Associated Press	Dally, Saturdays.	
	{	Civil and Military Gazette Desh	Daily, (Sundays excepted), Daily	

Societies: Literary, Scientific and Social.

HICULTURAL AND HORTICULTURAL SOCIETY OF INDIA (Calcutta),—Founded 1820. Annual subscription Rs. 32. Entrance fee Rs. 8. Secretary, F. H. Abbott, 17, Alipore Road, Allpore.

URI-HORTICULATURAL SOCIETY OF BURMA.— Secretary, Capt. W. H. Allen, Victoria Park, Kandawglay.

Kandawglay.

GRI-HORICULTURAL SOCIETY OF MADRAS.—

Established 1833. Quarterly subscription for membors in Class A Rs. 7, in Class B Rs. 3. Secretary, P. F. Fryon, Mount Road, Teynampett, S. W., Madras.

ARTHROPOLOGICAL SOCIETY OF BOMBAY.—

Founded 1840, to promote the prosecution of Anthropological research in India; to correspond with Anthropological Secretary.

or Anthropogical research in India; to correspond with Authropological Societies throughout the world; to hold monthly meetings for reading and discussing papers; and to publish a periodical journal containing the transactions of the Society. Annual subscription Rs. 10. Secretary, R. P. Masani, W. 1. Torn Hell Barrher.

M.A., Town Hall, Bombny,
ASIATIO SOCIETY OF BENGAL (Calcutia).—
Secretary, G. H. Tipper, M.A., 57, Park
Street, Calcutia.

BHANDARKAR ORIENTAL RESEARCH INSTITUTE, POOKA.—The Institute was inaugurated on the 6th of July 1917, the 80th birthday of Sir R. G. Bhandarkar, at the hands of H. E. Lord Willingdon who has consented to become its first President. Its objects are to provide an up-to-date Oriental Library, to train students in the methods of research and to act as an information bureau on all points connected with Oriental Studies. Membership dues Rs. 10 a year or Rs. 100 compounded for life. Secretary, Dr. S. K. Delvalkar, 330, Karayan Peth, Poona.

BOMBAY ART SOCIETY.—Founded 1888, to promote and encourage Art by exhibitions of Pictures and Applied Arts, and to assist in the establishment and maintenance of a permanent gallery for Pletures and other works of Art. Annual exhibition every February. Annual subscription Rs. 10; Life Member Rs. 100. Secretary, S. V. Bhan-

BONDAY BRANCH OF THE CLASSICAL ASSOCIA-TION.—The Classical Association was started, in 1903 in London, to promote the develop-ment and maintain the well-being of classical studies. The Bombay Branch was founded in 1010; it numbers over 100 members; holds 5 or 6 meetings a year; and publishes a yearly journal. Subscription Rs. 6 for ordinary and Rs. 2-8-0 for associate members.

Secretary, Mrs. Gray, 18 Marine Lines, Bombay.
BOMBAY BRANCH OF THE ROYAL ASIATIO
SOCIETY.—Founded 1801, to investigate and
encourage Oriental Arts. Sciences and Literature. Annual subscription Rs. 50. Secretary,
The Rev. B. M. Gray, Town Hall, Bombay.

BOMBAY NATURAL HISTORY SOCIETY .- Found cd 1883, to promote the study of Natural History in all its branches. The Society has a membership of about 1,700 and a small museum with a representative collection; of the different part of and the study of the statement of t tion of the different vertebrates and invertebrates found in the Indian Empire and Ceylon. A Journal is published quarterly which contains articles on different natural history subjects as well as descriptions of new species and local lists of different orders. In the more recent numbers, serial articles on came birds, common snakes, and common butterflies have been appearing. Annual subscription Rs. 15. Entrance fee, Rs. 10. Honorary Secretary, W. S. Millard, Curador, N. B. Kinness, Office and Museum, 6, Apollo Street, Bombay.

RITISH AND FOREIGN BILL SOCIETY.— Since 1811 the British and Foreign Bible Society has been at work in this country. society has been at work in this county. It has 6 Auxiliaries in India and an Agency in Burma. The first Auxiliary was established in Calcutta, in 1811, then followed the Bombay Auxiliary in 1813, the Madras Auxiliary in 1820, the North Irdia Auxiliary in 1845, the Punjab Auxiliary in 1863, the Bangalore Auxiliary in 1875, while the Burma Agency was founded in 1899. The Lithle or some portion of it is now to be had lible or some portion of it is now to be had in nearly 100 different Indian languages and dialects and the circulation throughout India and Burma reached over 1,000,000 copies in 1916. The Bibles, Testaments, and Por-tious in the various Vernaculars are sold at rates which the very poorest can pay, and at considerable loss to the Society. Grants of English Scriptures are made to Students who pass the various University examinations. tions, whose applications are countersigned by their Principals, as under:-

The 4 Gospels and the Book of Acts in 1 Vol. to Matriculates.

The New Testament and Psalms to Intermediates.

The Bible to Graduates.

Last year no fewer than 13,750 volumes were so distributed. Portions of Scriptures in the important vernaculars have been prepared in raised type for the use of the Blind and large grants of money are annually given to the different Missions, to enable them to carry on Bible women's work and Colportage.

Besides the British and Foreign Bible Society, there is Bible work carried on in India, Assam and Burna in a much smaller way by the Bible Translation Society—which is connected with the Baptist Missionsry Society—the American and Canadian Baptist Mission, the National Bible Society of Scotland, and the Tranquebar Tamil Bible Society. The following table shows the growth in the British & Foreign Bible Society's work during the past few years in India & Burma:—

CIRCULATION OF THE B.F.B.S. IN INDIA.

	Auxilla	ries.				1916.	1016.	1914.	1013.
Calcutta				•••	•••	130,499	148,068	169,285	184.753
Bombay				••		189,594	184,037	181,452	178,720
Madras	•	••	••		• •	275,204	233,420	263,805	280,352
Bangalore	• •	••	• •	••	•• ,	34,205	36,336	35,658	36,233
North India		••	••	••	••	189,564	172,172	210,754	186,650
Punjab	,		••		••	157,680	115,391	122,224	92,484
Burma	••	• •	••	••	••	105,127	117,948	117,518	117,225
	Fotal copies	of Scri	ptures	••		1,000,003	1,008,262	1,100,696	1,076,617

These returns do not include the copies which any Auxillary has supplied to London or to other Auxillaries and agencies during the year.

BRITISH MEDICAL ASSOCIATION (Bombay Branch).—Founded 1886, to promote Medical and the Allied Sciences and the maintenance of the honour and interests of the Medical Profession. Secretary, Dr. D. R. Bardi, Bombay.

BOMMAY MIDICAL UNION.—Founded 1883 to promote friendly intercourse and exchange of vlews and experiences between its members and to maintain the interest and status of the medical profession in Bombay. The entrance fee for Resident members Ra. 5, monthly subscription Rs. 2. Absent members Re. 1, and non-resident members yearly subscription Rs. 6. President: Dr. K. M. Dubash. Secretaries: Dr. R. D. Mody, Dr. A. K. Contractor. Hon. Librarians (Sir D. M. Petit, Medical Union Library):—Dr. M. D. D. Glider, Dr. Y. D. Glider. Treasurer: Dr. M. P. Kerrawalla, 123, Esplande Road, Bombay.

BOSTEAY SANITARY ASSOCIATION.—Tounded to create an educated public opinion with regard to sanitary matters in general; (b) to diffuse the knowledge of sanitation and hygiene generally, and of the provention of the spread of disease amongst all classes of people by means of lectures, leaflets and practical demonstrations and, if possible, by holding classes and examinations; (c), to promote sanitary science by giving prizes, rewards or medias to those who may by diligent application add to our knowledge in sanitary science by original research or otherwise; (d) to arrange for homely talk or simple practical lectures for mothers and

girls in the various localities and different chawls, provided the people in such localities or chawis give facilities. The Sanitar Institute Building in Princess Street, which has lately been built by the Association, at cost of nearly Rs. 1,00,000 the foundation stone of which was laid by Lady Willingdon in March, 1914, and opened in March, 1915; a large and liandsome structure with large Lecture Hail, Library, Museum, etc., and also provides accommodation for King Georg V Anti-Tuberculosis Leavue Dispensary and Museum and the Malaria Office and the Lady Willingdon Scheme. Hon. Secretary: Dr. J. A. Turner, C.I.E., Executive Health Officer Bombay.

EUROPEAN ASSOCIATION.—The European Association was established in 1883 under the title of the European and Anglo-Indian Defence Association and was re-established in 1912 under the title of the European Defence Association, but the present title was adopted in 1913. The Association has for its objects the general protection of European interests and the promotion of European welfare. The Association numbers 4,500. The Head Offices are at Growenou House, Calcutta. President, The Hon'ble Sit Archy Birkmyre. Secretary, Mr. Aler March. Bringles of the European Association of the Bringles of the European Association.

ASSAM VALLEY, DIBETGARH,—Chairman, Mr. F. L. Greenough, Hon. Secretary, Mr. A. L. Allum,

BIHAR, MOZUFFERFORE.-Chairman, Mr. P. Kennedy. Hon. Secretary, Mr. J. M. Wilson,

BOMBAY.—Chairman, The Hon'ble Mr. J. S. Wardlaw Milne. Hon. Secretary, Mr. A. W. S. Wise.

BUDMA, RANGOON.—Chairman, Sir A. W. Binning. Hon. Secretary, Mr. R. Edmondson,

DARJERING.—Chairman, The Hon'ble Mr. H. R. Irwin. Hon. Secretary, Mr. G. Wrangham-Hardy.

DELHI.—Hon. Secretary, Mr. R. E. Grant Govan.

DOOAES, JAIPAIGUEI — Chairman, Mr. D. Gollan, Hon. Secretary, Mr. Duncan McTaggart.

MADRAS.—Chairman, Mr. J. H. Thonger. Joint . Hon. Secretaries, Mr. H. H. Chettle and Mr. H. M. Spencer.

PUNIAB, LAHORE.—Advicey Committee, Mr. J. D. Bevan, Mr. E. H. Hardy and Dr. C. A. Owen, M.D., F.R.C.S.

SIND, KABACHI.—Chairman, Mr. G. Gordon, Hon. Secretary, Mr. B. D. Marshal.

Stema Valley, Suchae.—Chairman, Colonel J. G. Knowles, C.I.E. V.D., A.D.C., Hon. Secretory, Mr. F. G. Ballantyne.

UNITED PROVINCES, CAWNPORE.—Chairman, Mr. T. Smith. Hon. Secretary, Mr. J. G. Rvan.

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE (Calcutta).—Secretary, Dr. Amrita Lai Strear, 210, Bow Bazar Street, Calcutta.

INDIAN LIBITAL CLUE—Started on 30th March 1917, to promote a systematic study of politics in general and Indian politics in particular, to organise free and well informed discussions on current political topics as well as on abstract questions to provide facility for collection in the statement of the statement

or necessary to be raised, in the Imperial and Provincial Legislative Councils and toform and maintain a library.

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Office, Servants of India Society, Sandhurst Road. President, Sir Narayan Chandavarkar. Secrémies, Mr. J. R. Chapure, B.a., ILB., and Mr. C. S. Decle, B.A.

INDIAN ECONOMIC SOCIETY (BOMBAY)—Started in 1915, with the object of affording facilities for an accurate and scientific study of economics, for the formation and dissemination of current, economic ideas and for collecting first hand information regarding the industry and commerce of the country with a view to the removal of difficulties in the way of their promotion and development. The Society arranges periodical discussions and publishes pamphlets and it holds weekly Marathi Class in Economics. Subscription; a minimum of 6 Rs. a year. President, Mr. J. B. Petit. Scentaries, Mr. C. S. Doele of the Servants of India Society, Mr. N. M. Muzumdar and Mr. Gulabchand Develhand. Office—Servants of India Society's Hone, Sandhurst Road, Girgaon.

INDIAN MATHEMATICAL SOCIETY—Founded in 1907 for the advancement of Mathematical studies in India. It conducts a bl-monthly journal in which papers on mathematical subjects are published and maintains a library with current mathematical periodicals in all languages and new books in the subject.

The library is located in the Fergusson College Poona, whence the journals and books are circulated to members by post. The journal of the Society is published in Madras. There are about 150 members from all parts of Indis. President, Principal A. C. L. Wilkinson, M.A., Elphinstone College, Bembay, Secretaries, Prof. D. D. Kapadla, Poona, and Prof. M. T. Naraniengar, Bangalore, Librariem, Principal R. P. Paranipye, Peona.

INDIAN SOCIETY OF OFIENTAL AET (Calcutta.)

— Joint Sect. and Treats., N. Blownt and
B. C. Law, P. O. Box No. 8, Calcutta.

INDIA SUNDAY SCHOOL UNION.—The India Sunday School Union is a large indigenous interdenominational Society having the sympathy and co-operation of the greater number of Missionary Societies in India. The great purposes of the Union are the promotion of systematic and careful Rible study, and the increased efficiency of Sunday Schools in India. Its operations extend beyond the borders of India itself to Arabia, Slam, Borneo and Assam. Upwards of 650,000 Sunday Schools cholers and teachers and 13,944 Sunday Schools are connected with the Union, speaking 60 Vernaculars. One Certral and 40 Provincial Committees control its Indian work, which forms part of a worldwide movement with a membership of 28,000,000.

The India Union was founded in Allshabed in 1876. Venriy examinations are held for both teachers and scholars in 31 centres, for which medals, prizes, scripture awards, and certificates are granted to successful candidates, opwards of 20,000 entered these Exams, for 1913. Notes on the daily portions of the Interdenominational Bible Reading Association are published by the I. S. S. U. in English and 14 Vernaculars, and 50 editions of the S. S. Lesson Expositions are published in 20 Vernaculars. In addition, there is a large publication of literature dealing with all phases of child study and moral and religious training. The monthly publication of the Union is the India Sunday School Journal. The Teachers Training Department is under the care of Mr. E. A. Annett.

General Steretary of the Union, the Rev. R. Burges, India Sunday School Union Office, Jubbulpore.

MADRAS FINE ARTS SOCIETY.—Secretary, Edgar Thurston, Central Museum, Madras.

MADEAS LITERARY SOCIETY AND AUXILLIAN OF THE ROYAL ASIATIC SOCIETY—Secretary, W. F. Grahame, LC.S., College Road, Numgambaukum.

NATIONAL INDIAN ASSOCIATION.—Founded in 1870. Its objects are :—(a) To extend in England, knowledge of India, and interest in the people of that country. (b) To co-operate with all efforts made for advancing Education and Social Reform in India. (c) To proucte friendly intercourse between English people and the people of India. In Indithe proceedings of the Association the principle of non-interference in religion and a voidance of political controvery is strictly maintained. It has branches in Bombay, Madras, Bengal and

the Punjab. Hon. Secretary, Miss. Beck., 21 Cromwell Road, London. Publication. The Indian Magazine and Reriese, a monthly Journal which chronicles the doings of the Association in England and in India, and takes note of movements for educational and social progress. It publishes articles about the East to interest. Western readers, and articles about the West to interest readers in the East.

PHILATELIC SOCIETY OF INDIA.—Annual subscription Rs. 20. Secretary, J. Godinho, Girgaum, Bombay.

Photographic Society of India (Calcutta).

—Annual subscription Ra. 24 (Town Members) and Rs. 10 (Molusel members). Entrance fee Re. 20 and Rs. 10. Secretary.

A. K. Taylor, 40, Chowringhee Road, Calcutta.

RANGOON LITERARY SOCIETY, Secretary, M. Hunter, 13, York Road.

RANGOON MUSICAL AND DRAMATIC SOCIETY.
—Founded 1900. Secretary, Miss R. West,
Dalhousic Street, Rangoon.

ROYAL SOCIETY OF ARTS, INDIAN SECTION.—
This Society was founded in London in
the 18th Century. Its recently published
history by Sir Henry Trueman Wood, Secretary of the Society, gives the following
account of the Indian Sertion. In 1857, a
proposition was made by Mr. Hyde Clarke
type retart to the Council suggesting, that " who wrote to the Council suggesting that "a special section be formed for India, another for Australia, one for English America and so on." It was suggested that the Indian Section should meet once a fortnight for the reading of papers. Nothing came of the suggestion until ten years later when Mr. Hyde Clarke returned to England, and in 1868 he renewed his proposal, but only proposing the formation of a committee which should be the suggestion of the sugge which should organise conferences on Indian subjects. This time the suggestion was taken up more warmly. Mr. Hyde Clarke himself was placed on the Conneil, and the Indian Conferences which soon developed into the Indian Section, were started. The Indian Section thus established became a Indian Section thus established became a most important department of the Society. It has had creat results in India by spreading information as to the directions which the development of Indian manufactures and Indian products could most usefully take, and in England by giving similar information as to the industrial resources and progress of India Itself. The Section has received great help from the Indian press and it has in return been of service to the Indian press in supplying useful information to it. It has been of great value to the Society itself as the means by which many members have been added to its list, so that in fact, thanks to a very large extent to the work of the Indian Section and of the allied section for the Colonics, a large proportion of the present number of members come from the dependencies of the Eurpire abroad." Sections, 18 John Street, Adelphi, London.

BERVANTS OF INDIA SOCIETY.—The Servants of India Society which was founded by the

late Hon'ble Mr. Gopal Krishna Gokhale C.I.E., in 1905, has its Head-quarters in Poona and its objects are "to train national mis-ionaries for the service of India and to promote by all constitutional means the true interests of the Indian people." Its government is vested in the First member or President and a Council. On the death of Mr. Gokhale in February, 1915, the Honble Mr. V. S. Srinivasa Sastri was elected President. It has at present four branches, rfz.
(1) in Bombay, (2) in Madras, (3) in the United
Provinces, (4) in Central Provinces, Each
Branch consists of ordinary members, members under training and permanent assistants who work under the direction of a Senior Member. The branches engage both in propagandist and active work of political, educational, social, agricultural and philanthropic character. A fair idea of the work of a branch can be had from a brief description of the operations of the Bombay Branch whose members have so far undertaken activities in various fields, (1) Social purity like the Holika Sammelan of Bombay, (2) Social reform organization under the auspices of the National Social Conference, (3) rousing public opinion about elementary education, (4) promotion of the cause of elevation and education of Indian women by building up institutions like the Seva Sadan, Poona, (5) Social Service as carried out by the Social Service League of Bombay, (6) spread of co-operative movement among the agriculturists, compositors in the city of Poons and mill-hands in Bombay. The Co-operative societies, as at Hadapear in and other villages around Poona, started for the benefit of these poor people number about 25 with a total membership of over 1,200, capital of nearly one and half lakhs and a total turnover of three lakhs per year. 18 of these societies which are in Bombay for poor labouring classes are so conducted as to free their ing curees are so concurred as to her choice members entirely from their chronic indebtedness. Moreover educational work is organized by starting a Co-operative Secretaries Training Class in Bombay for 69 secretaries from the various districts this year, (?) relief work connected with wide-spread calamities work connected with wide-spread calamities of the connected with wide-spread calamities of the connected with wide-spread calamities. by organizing the Plague Relief Committee of Poons, which succeeded in making inoculation popular in the Decran, the Salumbra Fire itelief Committee which arranged for the relief to sufferers for five years and by undertaking a scheme of non-official relief during the famines of 1907-08 and 1914 in the United Provinces, the famine in Gujarat and Kathiawar of 1911-12 and the famine of 1913 in the district of Ahmednagar, (8) organising public opinion on the question of Indians in South Africa, (0) its political work is conducted strictly on congress lines and thus it was able to start District Congress Com-mittees in several wards of the city. There are now conducting a political quarterly, (10) it has started in Bombay an organisation called the Indian Economic Society with a view to promoting the study of Indian economics on right lines and also conducts a vernacular class. The Bombay Branch has systematically undertaken the training of Secretaries of Co-operative Societies in the Presidency. Government help in this scheme.

Quite recently the United Provinces Branch; organised a band of volunteers who rendered nesistance, in a manner that drew general approbation, to the pilgrims at the last Kumbha Mela in Hardwar. The Society engages in journalistic work also, having in its control the Hitarada, an English weekly in Nagpur, the Dnyan Prakash, a Marathi dally in Poona, and the Hindustani, an Urdu weekly in Lucknow. The U. P. Branch has in addition undertaken the publication of pamphlets on public questions and has sent out three such publications.

The expenses incurred by the Central Home of the Society in Poona and its four branches exceed Rs. 40,000 a year and this amount is made up by contributions from Indians, rich as well as poor. The present number of workers enlisted by the Society is about 20, most of whom are University men of considerable standing.

President.—The Hon'ble Mr. V. S. Srinivas Shustri, n.A.I.T., Triplicane, Madras, Senior Member, Madras Branch. Mr. Coral Krishna Devadiar, M.A., Senior Member, Bombay Branch. Mr. Natesh Appaji Dravid, M.A., Senior Member, Central Provinces Branch. Mr. Hirdayanath Kunzru, R.A., B.C., Benior Member, Upper India Branch. Mr. Anant Vinayak Patwardhan, n.A., Senior Member, Business Branch, Poona. Messrs. Devadhar, Kunzru and Vazo constitute the Council of the Society with the Hon'ble Mr. Shastri as its President. Dr. H. S. Deva, L.M. & S., is the Secretary of the Council and also of the Society and remains at the head-quarters of the Society and remains at the head-

SEVA SADAN.—The Seva Sadan Society was started on the 11th of July, 1909, by the late Mr. B. M. Malabant. It is the ploneer Indian ladies' society for training Indian sister ministrant and serving (through them) the poor, the sick and the distressed. The society has a habitation in Gamdevi, Bombay. One half of the Building and Endowment Fund of Rs. 82,000 has been spent mainly in building at Gamdevi, and partly in the purchase of two acres of land at Santa Cruz for a "Sisters' Home" and other purposes.

The Society maintains the following institutions for training its probationers and for
doing its other work. 1. A home for the
Homeless. 2. An Industrial Home with
various departments. 9. A Dispensary for
Women and Children. 4. Ashrama for Sisterhoods). 5. Free educational classes and a
Library and Reading-room. 6. Home-Classes
in the quarters of the poor, and normal classes
for training Marathi women for the teacher's
profession. All there are for the benefit of
poor women. Secretary, Miss B. A. Engineer,
M.A., Lin., President, Miss. Ramabat Ranade,
Hon. Gen Secretary, the Hon. Mr. Lalubhat
Samaidas, C.I.E., Treasurer, Sifter Sushilabet
and the Hon'ble Mr. Lalubhat Samaidas;
Truitees, Sir Narayan Chandavarkar, Sir
Elialchandra Krishna, Sir V. D. Thackersey,
the Hon. Mr. G. K. Farekh and the Hon. Mr.
Lalubhat Samaidas, C.I.E.

CONSUMPTIVES' HOME SOCIETY. This Socirty was started by the late Mr. B. M. Mala-

barl on the 1st of June 1909. It was registered under Act XXI of 1860. It is an off-shoot of the Seva Sadan. Mr. Malabari secured a large grant of land in a Himalay an pine forest in Dharmpur (Simla Hills) from H. H. the Maharaja of Patiala, for a Santtorium for Consumptives. The Sanitorium was started on June 1, 1909, and has been in existence ever since. Mr. Malabari collected an Endowment Fund of about 18s. 67,000 lodged with the Treasurer; Charitable Endowments, under Act VI of 1890. Nearly Rs. 70,000 more have been spent on buildings, etc., and the current annual expenditure is about Rs. 14,000. Dr. Nanavati, L.M. & S., and B.Sc., is in charge of the Sanitorium.

SOCIETY FOR THE PROTECTION OF CHILDREN IN WESTERN INDIA.—Office and Refuge: Girgion Back Road, Bombay.

Founded.—To prevent the public and private wrongs of children and the corruption of their morals; to take action for the enforcement of the laws for their protection, and, if necessary to suggest new laws or amendments of the existing laws; to provide and maintain an organisation for these objects; and to do all other lawful things incidental or conductive to the attainment of the foregoing objects. Subscription for annual membership, Rs. 10 for Life Membership, Rs. 100.

Honorary Secretaries: Mr. Mahomedbhoy Currimbhoy, Mr. N. V. Mandilk, B.A., LL.B., Mr. R. P. Masani, M.A., Mr. L. V. Ricu.

WEST OF INDIA ANGLING ASSOCIATION.—The Association was started in 1912 at Poona, the head-quarters were transferred to Bombay in 1915, and the membership has increased considerably since then. The rights for stocking, pressripg and angling in Lake Sydenham at Walwhan, near Lonavia, have been obtained by the Association from the Tata Hydro-Electric Power and Supply Co. and a commencement has been made with stocking the lake with sporting fish but it will not be opened for angling for a few years. A journal is published quarterly which contains articles on fishing, experiences in the rivers and lakes and on the coasts of India, the sporting fishes of the country and notes of general interest to Indian anglers.

Entrance fee Rs. 15, Annual subscription Rs 10. Patron, H. E. Lord Willingdon, President, L. Comber. Hon. Secretary art Treusurer, L. Balnes, Clo Ru-so-Aslatic Bank Bombay.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION IN INDIA. BURNIA AND CEVION.—This was started in India in an organized and National way in 1896. The aim of the Association is to meet the needs of the ciris and women who live in India from an Intellectual, Splittual, Social and Physical standpoint. This is done in many ways in the 153 Associations that now flourish under the auspices of the National Young Women's Christian Association. The Associations in the big cities have a large membership and include all clares of the community. Clubs, Classes, Lectures, Commercial Courses, Music, Languages, 1913.

and Mission Etudy, Footal Intercente, Physical Training, and all kinds of physical frontion. are carried on as need after in there (ity Associations. Boarding Romes are established in all the principal cities where teachers. nures, business girls, students, aftentices, etc., can have a comfortable home with peed whole some feed and congental compar length from Re. 20 per month. Travellers' Ald work is done and many travellers, especially in the port cities, find accommodation as they pass through employment is also found for women and girls. A useful feature of the association is the Hollday Homer that are conducted in the hills, where girls from the plains can find inexp-n-ive accommodation and meals health and strength. Some of the homes accommodate as many as forty-five at one time and hundreds benefit during the season. The work of the Association in the large cities is managed by a staff of Y. W. C. A. Secretaries, who are fully trained and equipped to meet the many demands that are made on them. These Secretaries are supplied from America, Britain, Australia, Canada and India.

Many of the Accoclations are in small arcountry stations where a handful of members constitute the Branch, led by some lady in the station who is glad of this opportunity for service. The members of these small stations may be transferred, in the ever-changing life of India, into the larger cities and then they learn in a fuller way what the Association can do to help them in all-round development. In addition to the work of the city department described above, the student department (which is affiliated to the world's christian student federation) has 47 branches in schools and colleges, while the vernaenlar department is carrying on valuable work in co-operation with Missionary societies in five different languages. The National Headquarters are In Bombay. The inter-denominational character of the Association is clearly kept in the forefront and ladies of many Christian deno-minations are on the Committee. The National Committee consists of thirty-two members resident and non-resident, representative of the City, Student and Vernacular Depart-ments in various sections of the country.

The Officers are: President, Mrs. Norwand; Vice Presidents, Mrs. Gray, Mrs. McKenvle, Mrs. Lowards; Hon. Trasaver. P. J. Clark; National General Scentary, Miss Rena Chrawell; National Business Scentary, Miss Alice Shields. The Ueneral Scentaries of the principal places are; Bombay, Miss Downley; Calcutta, Miss Crowe; Colombo, Miss Alexander; Rangoon, Miss Ledwich; Madras, Miss Bowney; Bangalore, Miss Meager; Karachi, Miss O'Brian; Lahore, Miss Decison; Mussoorle, Miss Gregory; Sinia, Miss Rutherford; Lucknow Miss Tavies; Nain 7al, Miss Mansem; Jubbulpore and Naupur, Miss Elly, Miss Patroness of the Association is H. D. Lady Chelmsford, who is also President of the Simis Branch.

The National Office is in the British Toreign and Bible Society Building, 170, Hornby Road, Bombay.

The Official Oppin of the Association is "Wenum's furticula in India," which has eliculation of over 1,700 copies mouthly

This supplies nomin listed in India with a good resievent the price of its, 1-t-ou year,

Tolko Men's Chester Association, which was founded by the late Sir Groupe Williams on June 0, 1845, seeks to unite there young men who, regarding Jesus Christ as their God and Saviour according to the Holy Feripturer, derire to be His disciples, in their decrime and in their life, and to associate their filorits for the extension of His kingdom among young men. The above is known as the "Paris liasis" and it is world-wide. It was adopted at the Ept World's Convention in Paris in 1855 and re-affirmed at the Jublice World's Convention, in Paris in 1805. The aim of the Association is through its religious, educational, and physical work to cater for the threefold—spiritual, mental and physical—needs of young men, and its polley is one of intense loyalty to the Church.

There are, as a rule, two clarees of members. Any young man who is a member in full communion of any Protestant Christian Church may be an active or voting member and any young man of good character may be an associate.

The Young Men's Christian Association though relatively new to India, is spreading very rapidly. The local Associations are autonomous and governed by local Boards of Mirectors. These Associations in convention elect a National Council of European and Indian laymen, who are responsible for the supervision and expansion of all forms of the Association work. Both the National Council and the local Associations employ specially trained full time Secretaries. Over two-thirds of the Secretaries are supported from funds raised in India and Ceylon. The remaining Secretaries are supported by the Associations of North America, Australasia, and Great Britain, but their work is directed by committees in India, to whom their services are loaned for the time-being. The first paid Secretary came to India over twenty-ave years ago, in response to an appeal from Madras. Soon afterwards the National Council was organised, and has become increasingly an indigenous institution.

There are now approximately 250 Associations with 15,000 members. Of these about one quarter are Europeans and three-quarter are Indians, of whom over half are non-Ciristians, The following Associations own one or more buildings which serve as the local headquarters:—Aliahabad, 2; Bangalore, 3; Aleppey, 1; Bombay, 4; Calcutta, 5; Calicut, 1; Coimbatore, 1; Coimbo, 1; Galler, 1; Hyderabad, 1; Jubbulpore, 1; Karachi, 1; Lalore, 1; Madras, 1; Mandalay, 1; Maymyo, 1; Kagpur, 1; Kain Tai, 1; Rangoon, 3; Secunderabad, 1; Simla, 1.

In addition to buildings owned by the Association, bungalows have been rented to serve as headquarters in the following stations:—Abmednagar, 1; Allahabad, 1; Ban-

galore, 2; Colombo, 2; Delhi, 1; Ferozpore, 1; Hyderabad, 1; Jamalpur, 1; Jhanri, 1; Jubbulpore, 1; Lahore, 2; Lucknow, 1; Madras, 1; Madura, 1; Mhow, 1; Palamcottah, 1; Multan, 1; Poona, 1; Pudukottah, 1; Rangoon, 1; Trivandrum, 1.

The departments of the National Council are Student, Railway, Rural, Literary, Army High School, Architectural Publication and Physical. The student Christian Association is affiliated to the National Council and has branches in more than two score Colleges. The Railway Department is responsible for the development of Associations amongst railway employés. At Jamalpur the railway institute and apprentices Engineers-Club are operated by the Y. M. C. A. The Rural Department is organising village Y. M. C. A.'s and co-operative credit societies and promoting cottage industries. The Literary Department maintains three Secretaries—J. N. Farquhar for Hindulsm. K. J. Sounders for Buddhism and H. A. Walter for Mohammedanism. The object of the department is to promote a proper and sympathetic understanding of the non-christian religious and show their relationship to Christianity. At the beginning of the war there were but three Army Associations and five Army Secretaries in the whole of India. Now Association priviles are provided for British Trops in twenty-nine cantonnients under the direction of seventy Secretaries and Assistants. Sixty Secretaries are at work in Mesopotamia, ten rope and Exphand 19 in British Fast Africa. In addition to organising school boys, Y. M. C. A.'s the High School Department arranges for holiday camps for boys and High School teachers. The National Council employs its own architects who plan and construct its buildings, hostels, and play-

grounds. The Physical Department specialises on physical education and is promoting the playground movement. A National Training School is established at Bangalore for the training of Indian Secretaries.

The "Association Press" is the Publication Department. A monthly magazine, the YOUNG MEN OF INDIA, is issued, and many books and pamphlets, both on Association subjects and on those of more general interest. Some of the latter have keen issued in conjunction with the Oxford Press.

The Headquarters of the National Council is 5, Russell Street, Calcutta. The officer are:—

Pairon: His Excellency Lord Chelmsford, Viceroy and Governor-General of India.

Chairman :- Raja Sir Harnam Singh, K.C.I.E.

Treasurer: -W. B. Gourlay, Esq., LCS. 8, Government Place, Calcutta.

Joint Treasurer.—L. Robertson, Esq., Las. General Secretaries:—E. C. Carter, K. I. Paul.

The Bombay Association now possesses four well-equipped buildings:— Wodehouse Road, Lamington Boad, Rebsch Street, and Reynolds Road. The President is the Hon'ble Mr. L. Carmichael, C.S.L., and the Gueral Secretary is Mr. Wilbert B Smith. In connection with each building there is a well managed hostel, one for Anglo-Indian apprentices, one for Indian students, one primarily for European business men, and one for Indian.

The Elton Hockey Tournament and the Condor Tennis Tournament are held annually under the auspices of the Bombay Association.

TABLE OF WAGES, INCOME, &c.

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PRINCIPAL CLUBS IN INDIA.

	1		Sub	script	lon.	:
Name of Club. Esta- blished		Club-house.	Ent.	An- nnal	Mon- thly.	Secretary.
	į		Rs.	Rs.	Rs.	_
ABBOTTABAD	.,	Abbottabad, N. W. F. Provinces.	16	1	10	Capt. P. M. Bennie.
ADTAR	. 1890 . 1863	Madras Agra Cantonment	73 50	12	47	F. Buckney, Major G.H.C. Wildes,
ABMEDNAGAR	1839	•••••	32	· •• ·	10	R.G.A. Maj. W. Corflands Anderson.
AIJAL	1693	Lushai Hills, E. B. and Assam.	52		10	
AJMEEE	1653	Kaiser Bagh	50	; ••	15	R. E. Coupland.
ALLAHABAD	1570	Berar Allahabad	100 100	:::	9	H. C. Greenfield. Capt. G. M. Rorth, B.A.
F AHLAOTI	•• ••	******	109		7	W. J. M. Peeble.
AMERICAE BANGALORE UNITE SERVICE	1894 D 1869	Amritar 38, Residency Road	20 100	i2	77	A. Mackay. Major E. Tennant.
	1553	Municipal Gardens	32	}	9	Capt. W. F. M.
BARRACEPER	1864 1850	Backerganj, Barical Grant Trunk Road, 3, River Side,	25 45	::	12 10	G. H. W. Davies. Major G. D. L. Chat- terton.
DASSEIR	. 1851	Fytche Street, 50, Bas- scin, Burms.	50		10	Comdr. A. Hamilton.
BELGAUN	1884	Close to Race Course	50		10	LtCol. J. W. Harley- Lyon,
BENARES BENGAL	1827	33, Chowringhee Road, Calcutta.	20 300	iś	14 13	Wilmot C. Dover, Col. W. Wesllens.
BENGAL UNITED SEI	1945	29, Chowringhee Rd	150	16	10	C. A. Mackenzic.
Deserves	1862 1883	Rampart Row Merchant Street, Ban-	100 50	::	6	H. G. Hichens. T. G. Miller.
BYCULLA	1833 1907	Beliasis Rd., Bombay. 13, Russell Street	200 100	12	10	Rajendra Nath
CALCUTTA TURP CAWNFORE CHAWHA CHILTAGONG	1861 1844 1891 1878	49, Theatre Road Cawnpore Dalhousle, Punjab Pioneer Hill, Chitta-	150 50 50 50	25	14 10	J. Hutcheson. Lieut. Col. Lawrenson. Capt. H. B. Hoods. Comdr. E. Gray
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CLUB OF WESTER	1865	Elphinstone Road, Poona,	200		6	Major N. Leslie.
COCMBATORE	1876 1867 1868	Coconada Colmbatore	50 70 50		10 7	Frederic A. Cox. C. D. T. Shores. E. M. Moss.
DACCA DACCA DACLELING DELHI	1594 1664 1869 1693	Coonoor, Nilgiris Dacca Auckland Boad Ludlow Castle, Delhi.	50 50 70 32	12	14 7 10	W. Rhodes Jam's. H. E. Annett. F. M. Timme. LtCol. D. M. Da- vidson, I.M.S.
HIMATAYA	1841 1867	Mussoorie Next to Public Gar- dens, Jhanal.	100 50	12	10 9–8	Vidson, I.M.S. R. S. Wahab. Major W. Hallaran, R.A.M.C.
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MADRAS	••		1931	Mount Road, Madras.	250	92	10	Captain W. B. F.
MADRAS CO: LITAS.	S 31 @ 1	P 0-	1873	Mount Road	••	12	36	The Hon. Mr. T Rangachariar.
HATARIO HATABLE	::	::	1964 1901	Beach Road, Calicut	50 100	12 12	6 10	H. Hadow.
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ORIESE	••	• -	••	Chaupatty, Bombay	150		6	C. N. Wadia and Col. J. Lloyd Jones.
Pegu Peshawad	···	••	1671 1833	Prome R.L., Rangoon. Peshawar	150 32		io	Capt. B. Stephenson. Capt. I. M. Conway Poole.
Punjab Quetta	••	••	1879 1879	Upper Mall, Labore Quetta	150 60		12 15	A. R. Ross Redding. Capt. B. Leicester.
Rangoon Be				Halpin Rd., Rangoon. Royal Lakes, Rangoon	75 48		3	W. B. Clover. R. R. Yeomans.
RAIPUTANA ROYAL BOM YACHI.		••	1880 1880	Mount Abu	50 250		8	Maj. M. P. Corkery G. C. Plinston.
SATURDAY SECUNDERA	BYD	• •		7, Wood St., Calcutta. Secunderabad, Deccar	100	::	8	G. Hervey. W. C. Clark.
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SIALEOT	••	•		Shillong. Slalket, Punjab .	. 35	2 '	6	Capt. G. S. Rivett
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The Church.

In the ordinary acceptance of the term, Martinlere Schools, on a non-denominational there is no established Church in India. An basis; but they are exceptional. In all the Ecclesiastical Establishment is maintained for providing religious ministrations, primarily, to British troops, secondarily to the European civil officials of Government and their families. Seven out of the eleven Anglican Bishops in India are officers of the Establishment, though their episcopal jurisdiction far transcends the limits of the Ecclesiastical Establishment. The stipends of the three Presidency Bishops are paid entirely by Government, and they hold an official status which is clearly defined. The Bishops of Lahore, Lucknow, Nagpur and Rangoon draw from Government the stipends of Senior Chaplains only but their episcopal rank and territorial titles are officially recognized. The Blahops of Chota Nagpur. Tinnevelly-Madura, Travancore-Cochin Dornakal and Assam are not on the establishment. The new Blahopric of Assam was created in 1915. In its relations with Government it is subordinate to the see of Calcutta. But the maintenance of the Bishopric is met entirely from voluntary funds.

The ecclesiastical establishment includes four denominations—Anglican, Scottish, Roman and Wesleyan. Of these, the first two enjoy a divilnetive position, in that the Chaplains of those denominations (and in the case of the first-named the Bishops) are indivi-dually appointed by the Secretary of State and rank as gazetted officers of Government. Throughout the Indian Empire there are 134 Anglican and 18 Church of Scotland chaptains whose appointments have been confirmed. Roman Catholic and Wesleyans block-grants from Government f receive provision of clergy to minister to troops and others belonging to their respective denominations. The Wesleyan Methodist Church has a staff of military chapitains in India who receive a fixed salary from Government and 25 chaplains working on a capitation basis of payment by Government. Churches of all four denominations may be built, furnished and repaired, wholly or partly at Government expense.

In the Anglican Communion a movement towards Synodical Government was making great progress, when, in the course of the year 1914, serious legal difficulties were encountered. The Bishops were advised that their relations with Canterbury and the Crown precluded the establishment of synods on the basis adopted by the Anglican Church in America, Japan, South Africa and other countries where it is not established by the State. It is stated that in course of time those relations may be medified so as to admit of the establishment of synodical government in India, Meanwhile Dioce ar-Councils are bling adopted as a make-shift measure. These Councils possess symodical

There are a few ineffections such as the La per annum,

large centres there exist schools of various grades as well as orphanages, for the education of Europeans and Anglo-Indians under the control of various Christian bodies. The Roman Catholic Church is honourably distinguished by much activity and financial generosity in this respect. Her schools are to be found throughout the length and breadth of the Length and breadth of the Indian Empire; and they maintain a high standard of efficiency. The Anglican Church comes next, and the American Methodists have established some excellent schools in the larger bill-stations. The Presbyterians are also well-represented in this field, particularly by the admirable institution for destitute children at Kalimpong, near Darjeeling. Schools of all denominations receive liberal grants-inald from Government, and are regularly in spected by the Education Departments of the various provinces. Thanks to the free operafrank recognition by Government, there is no religious difficulty in the schools of the European and Anglo-Indian communities.

Christian Missions.

The tradition that St. Thomas, the Apostle, was the first Christian missionary in India is by no means improbable. History, however, carries us no further back than the sixth century, when a community of Christians is known to have arrived in Welsher Since them the to have existed in Malabar. Since then the so-called Syrian Church in south-west India has had a continuous life. Except in its in-fancy this Church (or rather these Churches, for the Syrian Christians are now divided into for the Syrian Christians are now divided into four communions) has displayed little of the missionary spirit until quite recent times. Western Christianity was first introduced into India by the Pottuguese, who established their hierarchy throughout their sphere of influence, Goa being the metropolitical see of the Indies. Bt. Francis Xavier, a Spanlard by race, took full advantage of the Portuguese power in Western India to express the Christ power in Western India to earry on his Christian propaganda. His almost super-human zeal was rewarded with much success, but many of the fruits of his labour were lost with the shrinkage of the Portuguese Empire. is really to the work of the missionaries of the Propaganda in the 17th century that the Papacy owes its large and powerful following in India to-day. The Roman Catholics in India number 1,004,005, of whom 370,251 were added during the decade 1901-1911. The total of "Syrian" Christians (exclusive of those who while using the Syrian litury, are of the Roman obedience) is 315.612 assaults 248.741 in 1001. Protestant Christians (the term throughout this article includes characteristics, but are devoid of any coercive Anglicans) number 1,036,731, an Increase of Anglicans are concerned the activities of the Church are not confined to public worship bably exceeds that fleure at the prefet and pastoral functions. The education of the children of the Church are not confined to public worship bably exceeds that fleure at the prefet and pastoral functions. The education of the children of these communities is very largely (Crous Report of 1911, and the rate of increase in the hands of the Children are the following the previous decade was nearly leader.

It works in the poorest parts of Calcutta population. At Poons the Society co-operate and also at Barlsal. There are 11 mir-lon-with the Wantage Sisters and in Bombay with priests of this Society, and 10 Sisters. In addition to its work amongst the poor, the Oxford Mission addresses itself to the educated Sisters at Calcutta and the Sisters of the Churc classes in Rengal and Issues a periodical called (Kilburn) at Madras. The St. Hilda's Decompared. Epiphany, which is known all over India.

The Society of St. John the Lyangelist (commonly known as the Cowley Fathers) has houses at Bombay and Poona, and small stations in the Bombay Konkan. In Bombay its missionary work centres round the Church of Holy Cross, Umarkhadl, where there is a school and a working at Kangra and Palampur (Punjat dispensary. The Christians are chiefly drawn should also be mentioned under the head of from the very poorest classes of the Bombay | Anglican Missions,

Sisters at Calcutta and the Sisters of the Church (Kilbum) at Madras. The St. Hilda's Descot esses' Association of Labore carries on important educational work (chiefly amongst the domicities community) in the Punjab. The misclen of the Scottish Lpiscopal Church at Narpur, the Dublin University Mission of Hazaribesh, and the Mission of the Church of England in Canada working at Management of Logiand in Canada working at Management of Logiand in Canada working at Management of Management of

Bengal Ecclesiastical Department.

Lefroy, Most Reverend George Alfred, D.D.

.. Lord Bishop of Calcutta and Metropolitics of India.

SENIOR CHAPLAINS.

Stokee, Rev. Cecil George, M.A. .. Services placed at the disposal of Governmer of Bihar and Orlein. Pirminger, Ven'ble Walter Kelly, R.A., P. P., .. Archideacon of Calcutta, and Chaplain d Stuart, Canon Robert William Hall, B.A. .. Darjeeling.
.. St. James', Calcutta.
.. Chaplain, Kidderpore. Smith, Rev. Joseph Frank, B.A., A.K.C. Keeling, Rov. Emost William Phillips, B.A. Drawbridge, Rev. W. H., M.A.

Parker, Rev. William Almair Hedley Crozier, Rev. Philip Horsefall

.. Services placed at the disposal of Assair administration. On leave. .. Services placed at the disposal of Government of India.

And 11 Junior Chaplains.

CHAPLAINS OF THE CHURCH OF SCOTLAND.

Thomson, Rev. William, M.A. Presidency Senior Chaplain. (On depuise tion to Murreo.) Jamieson, Rov. Robert George, M.A... Officiating Presidency Senior Chaptain. . .

CHAPLAINS OF THE CHURCH OF ROME.

Mculeman, The Most Reverend Dr. Brice, S.J. .. Archbishop. Carbery, Rev. Fr. Philip, S.J. .. Chaplain, Presidency Jall.

Bombay Ecclesiastical Department.

Palmer, Right Roverend Edwin James, M.A. .. Lord Bishop of Bombay. Barham, Rev. C. M., M.A. (on leave for 3 months Archdeacon of Bombay and Rishop's from December). Commissary, and Chaplain of Declail. Bowen, John Cuthbert Grenside Registrar of the Diocese. Coles, Rev. A. H. Heywood, Rev. R. S. Joshi, Rov. D. L. Honorary Canons of Bombay Cathedral. . .

• • King, Rev. C. Rivington, Rev. C. S.

SENIOR CHAPLAINS.

Foote, Rov. Harold .. Camp, Aden. D'Alesslo, Rov. Edward Samuel John, P.A. Ahmednagar. Mould, Rev. Horace St. Mary's, Poons. .. St. Paul's, Poons. . . Kennelly, Rev. W. J. M. Tibbs, Rev. Philip Gordon, B.A. Kirkee. Arnould, Rev. Henry Lloyd M.H. .. Senior Presidency Chaplain.

And 17 Junior Chaplains.

CHAPLAINS OF THE CHURCH OF SCOTLAND.

Matthew, Rev. John Cromble, M.A., B.D. .. Senior Presidency Chaplain. . . And 9 Junior Chaplains and 2 Probationary Chaplains.

CHAPLAINS OF THE CHURCH OF ROME.

Bruder, The Very Rev. A. • • Presidency.

Madras Ceelesiastical Department.

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Bull Rev. I' thind Glin, Rev. General Denglas, R.A.	• ••		Bellary, Fort 5t, George,	
Firm, flev. Hugh Ham iton			Seemm teration.	
Hatebell, Bev, Christopher Fre Intle V	relieder.	3f. A.	ta fencing sectors	ette disposit of Covern-
Berrock, Rev. Franch Wheaten, at a.			Memory and Market	

And 24 Junior Chaptains.

CHEECH OF SCOTLAND.

Heren, Rev. John, n.a., p.d	• •	Presidency Senior Chaplain, St. Andrew's Church, Madess. (On combined leave.)
Gillan, Rev. David Helley, M.A., B.D., Phillip, Rev. James Gilcon	• •	St. Andrew's Church, Madras. St. Andrew's Church, Bangalore,
MRchell, Rev. James Donall, M.A., B.b.	••	Junior Chapdain, Et , Andrew's Church, Secure

Assam Ecclesinstical Department.

-	Drawbriller, Rev. W.H., M.A.	 	Shiftong,
	WHOOK, RAVE, P., B., R.A.	 	. Darrang,
ì	Cororat, Roy, N. W. P., B.A	 	IAMilmpar.

Bihar and Orissa Ecclesiastical Department.

Stoker, Rev. C. G , MA.	 	 Sinter Chaplain.	(On combined cave.)
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JUNIOR CHAPLAINS.

	Ridales, Rev. A.C. Newton, Rev. R.P., X.A.	• •	• •	••	Cuttaek.	
١	Perfect, Rev. Henry				Blugalpur.	
	Green, Canon Arthur Daniel				Monghyr and Jamaipur,	
	Payne, Rev. Russell, M.A.				Muzastarpur and Darbhanga,	
	Cosgrave, Canon W. F.				., Ranchi.	
	Moore, Rev. H. M.				Bankipore.	
	Spooner, Rev. Harold	••	• •	**	Services placed at the disposal of the Government of India, Army Dept.	ñ

Burma Ecclesiastical Department.

Fysic, The Right Reverend Rollestone Sterritt, M.A. Lord Bishop of Rangoon. (On leave). Blandford, Ven'ble Henry Weare, B. A. . . . Archdeacon and Bishop's Commissary.

SENIOR CHAPLAINS.

Collins, Rev. James Henry Beeley, Rev. George Henry	• •	••	••	Port Blair. Maymyo. Meiktlia.
Beeley, Rev. George Henry Ellaby, Rev. George Alfred,	D.A.	**	••	 Meiktlia.

And 6 Junior Chaplains,

Central Provinces Ecclesiastical Department.

.. Lord Bishop of Nagpur. Chatterton, Right Reverend E., D.D. .. Archdeacon, Pachmathl, Price, Ven'ble C., M.A.

SENIOR CHAPLAINS.

.. Nasirabad. Anstey, Rev. H. C. S., M.A. Clarke, Rev. W. L. M.A. .. Saugor.

Martin, Rev. F.W., M.A. .. Nagpur.

And 11 Junior Chaplains.

North-West Frontier Ecclesiastical Department.

SERIOR CHAPLAIN.

Muspratt, Rev. W., M.A. .. Hazara.

And 3 Junior Chaplains.

bined leave).

Puniab Ecclesiastical Department.

Durmet, Right Reverend H. B., M.A., D.D. .. Lord Bishop of Punjab, Lahore. (On Com-

Syme, The Ven'ble James Greensill Skoltowe, M.A. Archdeacon (Simia).

SENIOR CHAPLAINS.

Becker, Rev. Charles Maxwell, M.A. . .. On combined leave Becker, Rev. Charles Maxwell, M.A.
Brookes, Rev. Joshua Alfred Rowland, M.A.
Stanley, Rev. Albert Edward, M.A.
Mispratt, Rev. Walter, M.A.
Stewart, Rev. Charles, B.A.
Hickox, Rev. Sydney Ernest
Foster, Rev. Kenric George
Cole, Rev. A. B. Farquharson
Markby, Rev. F. L.
Thomas, Rev. E. S.
Wheeler, Rev. Hugh Trevor
Fagan, Rev. High William Farquharson
King, Rev. John Blakeney ., Quetta. .. On leave. Hazara .. Hazara, .. Hyderabad (Sind). .. Sukker. On special duty. .. Dalhousle. .. Dalhousie Cantonment. .. Jullunder. .. Ferozepore. .. Serving under Government of India. .. Multan. .. Murree (Nearer) Gallis.

And 23 Junior Chaplains,

United Provinces Ecclesiastical Department.

Wescott, The Right Reverend George Herbert .. Lord Bishop of Lucknow. Chapman, The Ven'ble Percy Hugh, M.A., LL.D. Archdeacon of Lucknow. .. Registrar of the Diocese of Lucknow. (On Pearson, H. G., Bar.-at-Law ... leave out of India.) Officiating Registrar of the Diocese of Luck-Lauxford James, J.W. ... now.

SENIOR CHAPLAISS.

.. Roorkee. (On combined leave.) Oldham, Rev. George Ernest, M.A. Canney, Rev. Duncan Arnold .. Services placed at the disposal of the Punjsh Government. Chanbatia. Menrics, Rev. Henry, M.A. Ninis, Rev. Richard Duncan Meerut. Fyzabad. Smith, Rev. H. T. P. .. Services placed at the disposal of the Government of India, Army Department. . . Bell, Rev. William Lachlan, M.A.

.. Allahabad. Eliching, Rev. W. L. W. .. Ranikhet. Ledgard, Rev. Ralph Gilbert ...

And 13 Junior Chaptains with 8 Additional Clergy.

CHURCH OF SCOTLAND.

Two Junior Chaplains.

THE ROMAN CATHOLIC CHURCH.

With regard to numbers, the Calledie Directory of India, 1913, gives the following discrepant tables:-

	•			Civil Census 1911.	Ecciminationi Estimate.
British India	Latin rite		••	 1,400,592	1,635,820
	f Elliso tite	••	• •	 417,142	254,690
Total, Brit Borma Ceylon	th India and Pi	* **	• •	1,913,724 60,242 539,300	1,000,480 53,447 322,163
Total, Indi	d, Burna and C	eylan	• •	 2,213,305	2,311,090
French India Portuguere Ind	la :		• •	****	25,018 206,149
	Eccir-in-	ical Gran	d Total	 ****	2,603,156

Total .. 2,537,708

The Catholic community as thus existing is composed of the following elements:—

- (1) The "Syrian" Christians of the Malabar Coart, traditionally said to have been converted by the Apostle St. Thomas, They were brought under allegiance to the Pope by the Portuguese in 1590, and placed first under Jesuit bishops and then under Carmelite Vicars Apostolic. They are at present ruled by four Vicars Apostolic of their own Syriae rite.
- (2) Converts of the Portuguese missionaries from 1500 and onwards, starting from Goa and working in the south of the peninsula and up the west coast and in Coylon.
- (8) European immigrants at all times, including British troops.
- (4) Modern converts from Hinduism and Animism in recent mission centres.
- The Portuguese mission enterprise starting after 1500, ontinued for about 200 years, after which it began to decline. To meet this decline fresh missionaries were sent out by the Congregation de propaganda fide, till by the middle of the 19th century the whole country was divided out among them except such portions as were occupied by the Goaclergy. Hence arose a conflict of jurisdiction in many parts between the Portuguese clergy of the "padroado" or royal patronage, and the propaganda clergy. This conflict was set at rest by the Concordat of 1886. At the same time the whole country was placed under a regular hierarchy, which after subsequent adjustments now stands as follows:—

Of the Portuguese Jurisdiction:-

The archbishopric of Goa (having some extension into British territory) with suffrapan bishopries at Cochin, Mylapore and Damaun (all three covering British territory).

Of the Propaganda Jurisdiction:-

The archishopric of Agra with suffragan bishoprics of Allahabad and Esputana and the Prefecture Apostolic of Bettiah.

The archbishopric of Bombay, with suffragan bishoprics of Poons, Mangalore and Trichinopoly.

The archbishopric of Calcutta, with suffragan bishoprics of Dacca and Krishnagar, and the Prefecture Apostolic of Assam.

The archbishopric of Madras, with suffragan bishoprics of Hyderabad, Vizagapatam and Nagpur.

The archbishopric of Ponditherry (French)
with suffragan bishoprics of Mysore,
Colmbatore and Kumbakonam.

The archbishopric of Simla with suffragan bishopric of Lahore and the Prefecture Apostolic of Kashmere.

The archbishopric of Colombo (Ceylon) with suffragan bishoprics at Kandy, Galle, Jaffna and Trincomalee.

The archbishopric of Verapoly, with suffragan bishopric of Quilon.

Four Vicariates Apostolic of the Syriac rite for the Thomas Christians of Malabar.

Three Vicariates Apostolic of Burma,

The European clergy engaged in India almost all belong to religious orders, congregations or mission seminaries, and with a few exceptions are either French, Belgian, Dutch, Swiss, Spanish or Italian by nationality. They

number about 1,000 besides which there is a body of secular clergy mostly native to the country, numbering about 2,000 and probably about 2,000 nuns. The first work of the clergy is parochial ministration to existing Christians, including tailway people and British troops. Second comes education, which is not confined to their own people; their schools being frequented by large numbers of Hindus, Mahomedaus, Parsis, etc. Among the most important institutions are St. Xavier's College, Calcutta, St. Peter's College, Agra, St. Xavier's College, Bombay, St. Joseph's College, Antier & Contegs, Bounday, St. Societa s. contegs, Trichinopoly, St. Aloysius College, liangalore, teaching university courses; besides a large number of high schools and elementary schools. The cducation of girls is supplied for by numerous convent schools worked by religious congregations of nuns to say nothing of orphanages and other charitable institutions. The total number under education amounted in 1964 to 143,051 boys and 73,164 girls, later figures being unavailable. As to missionary work proper, the country is covered with numerous mission centres,

among which those in Chota Nagpur, Gujerat; Orissa, the Mizam's Dominions, the Ahmednagar district and the Telugu coasts may be mentioned. (Full particulars on all points will be found in the Catholic Directory already ouoted.) The mission work is limited solery by shortage of men and money, which it forthcoming would give the means to an indefinite extension. The resources of the clergy after the ordinary church collections and pay of a few military and railway chaplaincies are derived mainly from Europa, that is, from the collections of the Society for the Propagation of the Faith and of the Holy Childhood, helped out by private or other donations secured from home by the different local missionaries. In mission work the fathers count as enrolled only those who are baptised and persevering as Christians, and no baptism, except for mants or at point of death, is administered except after careful instruction and probation. and probation. This, while keeping down the record, has the advantage of guaranteeing solid results.

THE SCOTTISH CHURCHES.

they are stationed, but when there is a Scot-tish regiment the chaplain is attached to the regiment, instead of being posted to the station where the regiment happens to be placed and as a rule moves with the regiment. There are three Presidency senior Chaplains in charge of Bengal, Bombay, and Madras respectively. There are churches in the chief towns of the Decidence and aburdless have been been the Pre-idencies, and churches have also been built, or are being built, in all considerable military stations, e.g., Chakmata, Lucknow, Perhawar, Ranikhet, Rawalpindi, Shikot and Umballa. In addition to the regular establish-Umballa. In addition to the regular establishment there are assumed to the regular establishment there are assumed of acting Chapplains ent out by the Colonial Committee of the Church of Scotland, and the c are serving in such stations as Rawalpindt, Cawnpore, Merut. Mhow, and Quetta. The Additional Clergy Societies in India contribute towards the cost of this additional establishment. In other places such as Sialkot, Murree, Dalhousie, Darfeeling and Laborr, regular services are provided by Scottish Missionarics. Simia has and in Madras the local congregation supports of this additional establishment. In other places such as Siatkot, Murree, Dathousie, Darfeeling and Labore, regular services are provided by Scottish Missionaries. Simia has a minister of its own sent out from Scotland.

The Mission work of the Church of Scotland dates from 1829, when Alexander Duff, one of the greatest of modern missionaries, was sent to Calcutta. He was the first to open schools where linglish was made the medium for instruction, and where religious teaching was given dally. Similar educational missions were soon atterwards started in Bombay and Madras. Educational work is still an import-ant tranch of the mission work of the Church.

The Church of Scotland.—The Chaplaincy and in 1907 the College in Calcutta was united work of the Church of Scotland dates from with the College of the United Free Church 1814, when the Rev. Dr. Bryce landed of Scotland, to form the "Calcutta Christian in Calcutta, and organised a congregation College." In the Punjab Evangelistic work of his Scotlish fellow countrymen. Since is being carried on from eight centres under 1903 there have been eighteen chaplains on the soventeen missionaries. The baptised Christian staff, of whom nine belong to the Bengal tian community now numbers aimost 13,000. Presidency, ave to Bombay, and four to Madras. Work commenced in Darjeeling in 1870 is These minister both to the Scottish troops now carried on throughout the whole and to the civil population of the towns where Eastern Himalayan district, and there is a Eastern Himalayan district, and there is a Christian community there of over eix thousand. In the five mission districts of Calcutta, the Eastern Himalayas, Madras, Poona, and the Punjab there were at the end of 1915 over 21,000 baptised Indian Christians. In connection with these missions the Women's Association of Foreign Missions does invaluable service in school, medical and zenana work, having in India 48 European missionatics, 145 teachers, over 50 schools, three hospitals and six dispensatics.

and in Madms the local congregation supports The new wella school for poor children. The new Kellinknown St. Andrew's Colonial Homes at Kallin pong, Bengal, though not directly part of the work of the Church of Scotland, were initiated by and are being locally managed by Misdea-aries of that Church. The homes exist for the benefit of the domiciled European Com-munity, and are doing magnificent work. There are now filtern cottages, and 437 children may i-Madras. Educational work is still an Import- in residence. Further information may ant tranch of the mission work of the Church, found in "Reports of the Schemes of the Course but the Bombay College was closed in 1894; of Scotland," Blackwood & Sons: "The

THE CLUADIAN PARTIET MISSION .- Was colomenced in 1873, and is located in the Lastera Telucu District to the north of Madra, in the Kiston, Godavari, Vizzgapatam, and Osujam Districts. There are 22 stations and 180 outstands with a station with a station of 80 missions, including than Re. 1,10,000 for religious and beared.

7 qualified physicians, and 654 Indian workers, work within the Mission. Onyawith Cospel preaching in villages. nised Churches number 10, communicants 10,113 evangelistic and the training of the natural and allocants 10,013 for the annumber 10, communicants 10,113 evangelistic and the training of the natural states. and adherents 10,027 for the past year. Thelve: Churches are entirely self-supporting. In the aducational department are 20.1 village. Day of which, in Burma, has been the practical actions, with 7,000 children, 10 Boarding schools, transformation of the Karens, whose languages. Theological Seminary providing in all for 825. The work in Assembly and an Industrial school. Educational department of the second of the stress is laid upon the work amongst women and : children in particular. During the last decade nember-hip has increased by 63 per cent., the Christian Community by 50 per cent. and isholars by 500 per cent. The Indian Secretary is the Rev. A. Scott, Tuni, Godavari District.

THE AMERICAN BAPTIST TELEGO MISSION. -Was commenced in the year 1836, and covers large parts of Nellore, Guntur, Kistna, and Kurnool Districts, and parts of the Decean. Its main work is evangelism, but there is large Educational and Medical work in addition. There is an English Church in Madras. large industrial Yerakala settlement is carried on at Lavell under the charge of one of the missionaries. Organized Telugu Churches, number 178, with 7,0 4 baptised communicants. There has been a net increase of 1,000 per annum for the past twenty years. There are 112 Missionaries and 1,915 Indian Workers. There is a large Theological Seminary at Ramapatnam | Missions - Embracing the societies representfor the training of Indian preachers and a Bible ing the Baptists of the States of the Australia School at Visukonda for training Bill women. Commonwealth. The field of operations is In ordinary educational work 769 day schools. East Bengal. The staff numbers 36 Australias 26 Bearding Schools and 4 High Schools give workers. There are 1,461 communicants and a staff of the Schools and the Schools give workers. training to 24,1-8 scholars. In Medical work Christian community of 2,870. 5 Hospitals report 1,708 in-patients and 10,583 out-patients for the year.

Corresponding Secretary: A. M. Bogge, Narsamvupet, Guntur District.

AMERICAN BAPTIST FOREIGN MISSION So. Missionaries, and 86 Indian Wo GIETY, organizeden 1814, has Missions in Burma W. and the Trichy District-begun 1814; Assam 1836: Rengal and Orless a number 140; organised Churcht 1830; South India 1840. It owes it-rice to the schools 25, with 1,200 pupils. celebrated Adoniram Judson. Until 1910 the Society was known as the American Baptist Missionary Union. There are 31 main stations in Burms, 13 in Assam, 9 in Bengal and Orlsea,

The missionary staff numbers 398 in all, with an Indian workers staff of 4,834. Com-Organized churmunicants number 155,063. ches number 1,350 of which 860 are self-sup-porting. Educational work is conducted on a large scale, the total number of schools of all grades being 1,852 with over 65,000 pupils. The Christian College has 74 students in college classes. There are ten High Schools with 3,562 pupils.

Medical work embraces 14 Hospitals and I Disponarier, in which 78,000 cetember and 1.8.2 in-patients were treated but Year.

Indian Christians contribute stately mor

The great work of the Mission continues to be preachers and Bible-winen, and extends l' many races and languages, the most importa-

Assam Secretary, R. v. W. Pettigrew, Gaulially Asram.

Burma Secretary, Rev. H. J. Marshall, Thart's waddy, Burms.

Bengal and Orista Secretary, Rev. Monard R. Murphy, M.D., Midnapore, Bengal

South India (or Telugu) Secretary, Rev. W. A. Stanton, D.D., Kurnool, Kurnool District. S. India.

TASHARIAN BAPTIST MISSION .- WITH THE 3 missionaries, is established at Siragung, E. Bengal.

Secretary: Rev. E. T. Thompson, Missica House, Singuage.

THE AUSTRALIAN BOARD OF BAPTIST FOREIGS

Secretary Field Council : Rev. Hedley Sutton, M.A., Mesion House, Mymensingh.

THE STRICT BAPTIST MISSION.—Has 10 Missionaries, and 86 Indian Workers in Madra, W. and the Trichy District. Communicants number 140; organised Churches 4; Elementary schools 25; with 1900 multiple of the communicant of th

Secretary : Rev. E. A. Booth, Kilpauk, Madras. W.

AMERICAN BAPTIST, BENGAL-ORISSA MISSION 29 in South India, besides hundreds of outstations. All forms of missionary enterprise
come within the scope of the Society.

The missionary staff numbers 308 in all.

English Church and 24 Vernacular Churches, Christian Community 5,000. One hospital and two dispensaries. Educational: One Theological and one High School, and 150 Elements Schools and 150 Elements schools, pupils 4,880. Two industrial schools for weaving and carpentering & The Vernscular Press of this mission printed the first light and the Ilterature in the Bantali language.

Secretary: Rev. Howard R. Murphy, M.D. Midnapore.

PRESBYTERIAN SOCIETIES.

THE IRISH PRESBYTERIAN CHURCH MISSION .-- | Operates in Gujerat and Kathlawar with a staff of 31 Missionaries of whom 2 are qualified dec-tors and an Indian staff of 529 including school teachers. There are 9 Organised Churches, a communicant roll of 1,557, and a Christian community of 5,555. In Medical work there are 2 Hospitals, 5 Dispensaries, with 600 in-patients and 13,714 out-patients. The Mission conducts 3 High schools, 3 Anglo-Vernacular schools, and 133 vernacular schools affording tuition for 0,607 pupils, 4 Orphanages, a Divinity College at Ahmedabad, a Teachers' Training College for men, a Teachers' Training College for women, both at Ahmedabad, and a Mission Press at Surat. The Mission has made a speciality of farm colonies, of which there are about a score in connection with it, most of them thriving,

The Jungle Tribes Mission with 4 missionaries is a branch of the activities of the above, working in the Panch Mahals and Rown Kantha districts, with farm colonies attached.

Secretary: Rev. Hamilton Martin, D.A., Mission House, Wadhwan Camp.

THE UNITED PRESBYTERIAN CHURCH OF N. AMERICA,-Slalkot Mission was established in 1856 operating in the extreme North of the Punjab, and is practically the only Mission working amongst the 9,374 cities and villages of that district. Its missionaries number 78. Indian workers 718. There are 60 organised congregations with 400 outstations, a membership of 32,307, and a Christian community of 61,064. Women's Societies number 29. A theological seminary and a college, 4 high schools, 7 middle schools, 2 industrial schools, 2,220 primary schools, containing in all 12,315 pupils. In medical work there are 4 hospitals and 7 dispensaries with 1,626 in-patients and 55,476 out-patients for 1914.

Secretary: Rev. R. Maxwell, Gujranvala,

THE AMERICAN PRESBYTERIAN MISSION operates in 3 main sections known as the Punjab, North India and Western India Missions. The American Staff numbers 200 and Indian Staff 1,224. There are 29 main stations and 204 out-stations. Organized churches number 62, 17 of which are self-supporting. There are 17 of which are self-supporting. There are 9,502 communicants and a total baptized community of 61,212. Educational work as follows: 3 Christian Colleges, students 60; Training Schools for village acrees 2, students 150; High Schools 15, pupils 1,073; Industrial Schools 5, pupils about 160; Agricultural Demonstration Farms 4, students about 100; Trachers' Training Departments 7, students about 100; Medical students at Miraj 61; Elementary Schools 200; Schools of all grades 328, pupils 12,015. Medical work: Hospitals 6; Dispensarics 11: In-patients 4,301; out-tatient pensaries 11; in-patients 4,301; out-patient visits 149,487. Sunday Schools 424, with 13,682 pupils. Contributions for Church and with Dyangelistic work on the part of the Indian Church Rs. 22,840. Total Indian contributions for all purposes, including educational and medical fees and grants Rs. 5, 29,923.

throughout the whole of S. W. India, and the Forman Christian College at Lahore under the principalship of Rev. J. O. R. Ewing, D.D., C.I.E., is equally well-known and valued in the Puniab. The Allahabad Christian College (Dr. C. A. R. Janvier, Principal) is growing rapidly and its agricultural department has become increasingly prominent. Woodstock College for Women at Mussoorle, Principal Ilev. E. M. Wherry, D.D., is one of the largest and most valuable institutions of this description in Northern India.

Secretary of Council of A.P. Missions in India: Rev. H. D. Griswold, Ph. D., D.D., Saharanpur,

Secretary, Puninb Mission : Rev. E. D. Lucas. Inhore.

Secretary, North India Mission: Rev. R. C. Smith, Patchpur, Haswa.

Secretary, Western India Mission: Rev. H. K. Wright, B.A., Venguria,

THE NEW ZEALAND PRESBYTERIAN MISSION. Commenced as recently as 1010 at Jagadhri. Punlab.

Secretary : Miss A. E. Henderson, Jagadhri.

Commenced in 1011, mas 14 main Stations in the Indore, Gwallor, Rutlam, Dhar, Alfrajpur, Jaora, Sitamau, Banswara, &c. Native States—The Mission staff numbers 72, Indian workers 211, Organized Churches 13, Communicants (September 30, 1910) 1,108, Baptised 1916) 1,108, Baptised 2,219, Unbaptised infants non-communicants 2,219, Unbaptised infants and catechumens 151, Total Ciristian Com-munity 3,478; Educational work comprises Elementary and Middle Schools, High Schools pola and girls, College, Theological and Classes. Seminary and Classes. Industrial teaching and work are done in three Girls' Orphanages, in the Women's Industrial Home, and at Rasalpura which last includes the Mission Press and the School for the blind. The Medical work is large, chiefly among women.

Secretary: Rev. J. Fraser Campbell, D.D.,
Rutlam, C. I.

THE GERMAN EVANGELICAL SYNOD OF NORTH AMERICA.-Commenced work in the C. P. in 1865. The mission staff numbers 23; Indian Christian workers 310; Communicants 1,815; total Christian community 4,008; Organised total Christian community 4,005, Organized Churches 0; one Theological school with 10 students; one High School with 90 students and 04 other schools with 3,956 students. The mission has 2 Hospitals and 6 Dispensaries which in 1014 freated 18,013 patients.

Secretary: Rev. F. A. Goetsch, Bisrampur.

THE WELSH CALVINISTIC METHODIST MISSION WELSH PRESERVER MISSION) esta-ed in 1840 with a staff of 32 Missionblished in 1840 with a stall of a mission-aries, 600 Native workers, occupies stations in Assam in the Khassia and Jaintia Hills, the Assam in the Khassia and Jaintia Hills, the Lushni Hills and at Sylhet and Cachar. The Khassia language has been reduced to writing, Anassa language has seen reduced to writing, the Bible translated, and many books published in that language by the Mission. Communicants number 14,000, the total Christian community 42,000; organised Churches 450; self-supporting Churches 30, Elementary The Hospital at Miral, under the care of Dr. self-supporting Churches 30. Elementary W. J. Waniers and Dr. C. E. Vallis well known schools number 510, scholars 15,000; Boarding

Dispensaties provided for 10,000 patients 37; High schools 4, acholars 1,210; In 1914.

Secretary: Rov. J. Ceredig Evans, Shillong, THE ARCOT MISSION of the Reformed Ohurch in America (Dutch), organised in 1e53 Onuten in America (Dutch), organised in 1859 82,032 out-patients for occupies the Areot and Chittoor districts in S. India with a stati of 20 Missionaries, and Secretary: Rev. H. 504 Indian ministers and workers. Churches Punganur, S. India.

schools 3, scholars 820, in addition to i number 19. Communicants 5,006, total Christian Industrial school, 4 Training institutions and tian community 11,295; Boarding school II. Theological Seminary. Two Ho-pitals and reholars 524; Theological selnol 1, students schools 2, students 41; Industrial schools 2, pupils 95; Florents 2, pupils 05; Elementary schools 181, acholats 0,015. Three Hospitals, 7 his pensatics with stant of 63, provided for 2,217 in-patients and 82,032 out-patients for the past year.

Secretary: Rev. H. J. Scuides M.A., & B.D.

CONGREGATIONAL SOCIETIES.

THE AMERICAN BOARD OF COMMISSIONERS one in Benzul and the other in Khandeshron Founds Missions. - Has two large Missions, total mission staff is represented by 10 missions. the American Marathi Mission, and the Madura, the and 27 Indian notkers. There are Mission. The Marathi Mission includes a large communicants and a Christian community of part of the Bombay Presidency, with centres 158. Ten Elementary Schools provide for 101 nt Bombay, Ahmednagar, Satara and Sholapur, | pupils. and was commenced in 1818, the first American *Mission in India. Its activities are large and 5, varied. The staif at the beginning of 1017 Bengal. The Branch in Khandesh co-operated coasisted of 52 missionaries and 638 Indian with the Smooth Allege Market and both with the Smooth Allege Market and both workers operating in 15t outstations exclusive of Bombay City. Organised Churches number 65 with 8,152 communicants, and 6,208 adherents. There is a Leper work at Sholapur. The Educational work embraces it training and second dary schools, with 8,32 pupils and 170 primary schools, with 6,384 pupils three-siths of whom are non-Christians. A large Theological Seminary at Ahmednagar trains for the Ludian Ministry, Zenana work and Industrial work are vigorously carried on, the latter combineing carpentry, metal hammering, lace work, carpet weaving and extensive work on an improved hand loom. A school for the blind is conducted on both Educational and Industria: lines. 47,168 patients were treated in the Hospitals and Dispensaries of the Mission last sear. The Mission has for 70 years published the "Dayanodaya," the only combined English and Marathi Christian weekly newspaper. Special evangelistic work is carried on amongst the tribes known as the Bhills and Mangs. This Mission was the first to translate the Chris-

communicant roll of 8,950 with 20,438 adherents and 35 organised churches, many of which, and 35 dignised tendency, many of which are entirely elf-supporting and self-governing. Schools number 202 with 13,117 pupils. There is a Christian College at Madura, as also Hosare entirely self-supporting and self-governing.

Schools number 262 with 13,117 pupils. There is a Christian College at Madura, as also Hogstalia for men and women; at Pasumalal are a Pradict Training School and Printing Press.

Theological Institution, Industrial School, Teachers' Training School and Printing Press.

The Secretary of the Marathi Mission is the Rev. A. H. Clark, Ahmednagar; and of the Madura Mission, the Rev. C. S. Vanghan, Manamadura.

The Arcot Mission commenced under the American Board was transferred to the Reformed Church of America in 1851.

with the Swedish Alliane Mission, and beth inissions having a united yearly conference.

THE SWEPISH ALLIANCE Mission.—Working among the Bhile in West Khandish has 15 missionaries and 20 Indian workers. There are 5 congregations with a total membership of 470, of whom 250 are communicants. There of 470, of whom 220 are communicants. are 5 Elementary Schools, 2 Boarding Schools and one Industrial School. The pupils are 90. Secretary: Rev. Daok Hedberg, Nandurbar,

West Khandesh, THE SCANDINAVIAN ALLIANCE MISSION, HIMA-LAY 45.-(F. north Branch). The total mission staff is represented by nine missionaries and six native workers. There are about 80 Communicants, five churches and a Christian community of about 100. One Orphanage with 23 orphans, one Kindergarten school, one Upper Primary school and three Day schools with about 70 pupils. Acting Secretary: Miss Elara Herts. Lachen, ris Gangtok, Sikkim.

This Mission was the first to translate the Christian scriptures into the Marthi torgue.

The Madura Mission.—In the S. Madras Communicant roll of 8.980 with 26.438 adherents.

The Madura Mission was the first to translate the Christian scriptures into the Madura Mission.—In the S. Madras Communicant roll of 8.980 with 26.438 adherents.

The Loydon Missions Society.—Communicant of Mission engages in every form of Missionary activity. The European workers 2,004; Communicant roll of 8.980 with 26.438 adherents. 116,575. 18,743 and Christian community There are 4 Christian Colleges, students 159

The main centres of the Mission in N. India are at Calcutta, Benares and Almora. The Bhowanipur Institution at Calcutta is now a Teacher formed Church of America in 1851.

THE SCANDINAVIAN ALLIANCE Mission of carried on amongst the thousands of rilginis North America.—Embraces two Branches, visiting Benares, and Almora is noted for its Hospital and Top of Anthon Appeted of series are peof for the their fargest in India, and a large grades of the formal other and the series of the B. Traventoria table the series and in Fight and the formal profits, the contrast the B. Traventoria table, The Series of the B. Traventoria tables. The Series of the district te district being the Series of Rev. J. H. Brown, B.A., 138 334. And The Control of the Service of Control of the Secretary Rev. J. H. Brown, D.A., II. Entrol of Entrol of Service of the Secretary Rev. J. H. Brown, D.A., 12 stand of and All Control of the Service of the S

ALL-INDIA MISSIONS.

The Confidence and Missionann Appearer influion at Conjon, Those Diffict, with 6 Misembates to en the pest 1 and under the name of names, and the thurch of Gold Michon with 7 of the determinational Mericany Attender, the o complete of the sale transfer were at walk to Frence Principles to the earlier. The work to Figure Procures to the statics of Birne, Bloods to the state anterprise in the Himshyan Native and it is not a first the state of the state of the state and a state of the st pi nglis. There are 4 proticespres I forbeep and A fre grifte M typfelmastische fice find an morkers. gregine Training Provide that an worker, and I have been excellent thream. Serve, J. N. Colver, Viramore, for Gujanti, for Bitts and Elizabeth, Rev. J. H. Aventherer, Malagine, Bras. The Church of the Best surface.

Southern part of Bulgat, Manifold, and Thank Districts. Its staff numbers 20 includ-ing michnaries' wiscs, and 105 in than workers. The Estitled (imment it membership stands at 1,125; olganica is earried on in 2 Girls' Boar le for schools, 4 Beauting schools for boys, and 81 Village Day schools, Industrial work is contracted with four of the schools, and a l'atm

Colony is established at Emballa.

Mission, Nastapur, in the Bhor State, Secriory: Mr. J. W. Stothard, Nastapur, Poona District, THE AMERICAN CHICKETS OF GOD MISSION

THE AMERICAN CHERCHES OF GOD MISSION—Has two missionaries at Boers, Hengal, The INDIAN CHRISTIAN MISSION—Founded in 1805, has 31 Organized Churches, 1 Missionaries, 24 stations, 41 outstations, 1502 Communicants, and 28 Primary schools in the Ellory district, 8. India, tations also in Byrnag, Kumaon, N. India, and Nuvara Ellya, Ceylon, Scordery: A. S. Paynter, Nuwara Ellya, Ceylon, Scordery: A. S. Paynter, Nuwara Ellya, Carlon.

Ceylon.

There are 3 PENTECOSTAL Missions at work. The Pentecostal Mission in W. Khandesh and Thana Districts; the Pentecostal Church of the Nazarine Mission at Buddana, Berar, and the Pentecost Blands of the World Mission with a Boys' Orthunace at Dondi Iohara, C. P., a Girls' Orphanace at Raj Nandezon, and a Leper Home at Raj Nandezon, and a Leper Home at Raj Nandezon and Blatte preachers and Blate women.

THE SANARUE AND DISTRICT BIBLE AND MEDICAL MISSION—Was established at Lohachat, 48 miles from Almora, in 1010. Ceylon, There

Missi ration at Laborte, The Hurning Bush Mission has a staff of h Missionation at Allahabad

ring has six missioneries. Agreet; D. W. Zook,

Adrs, B. S. Ry.

THE THETAN Mission-Hay 5 Missionarice with headquarters at Darjeeling, and Tile! as its objective. Secretary : Miss J. Per-

guen, Darjeling.
The Indian Missionant Society of Tinne-TILLY (DOETAKAL MISSION)-Opened in 1904, operates in the Waraugal District of the Nizam's Dominions. It is the missionary effort of the Tamil Christians of Tinneveily, There are now 1,620 Christians in 46 villages. Secretary;

Mr. J. Antodaivan, B.A., L.T., Palameottab. THE MISSION TO LEPERS-Pounded in 1874 is an interdenominational and international Society for the establishment and mainand Stolagar Districts, with 21 European and India, China, and Japan. Its work in India is 22 Indian workers. The number of Indian carried on through co-operation with 20 Missoft the Wilars, with Women's Zenana work. Asylums of its own with over 4,223 inmates, and Village selveds. The min work is examplem selmany Societies. The Misson now has 89 of the Wilars, with Women's Zenana work. Asylums of its own with over 4,223 inmates, and Village selveds. There are 4 Village and is alting or has some connection with work in great rilarimace city of Pandharpur. Mission's own and alded Asylums there are about and a hospital at the head-quarters of the 2,100 Christians. The total security Mr. J. W. Stothard, Nasrapur, Bessa. The content of the 2,100 Christians. The total security Mr. J. W. Stothard, Nasrapur, Bessa. The content of the 2,100 Christians.

An important feature of the work of the Mission is the segregation of the untainted or healthy children of tepers from their diseased parents. 550 children are whus being regregated and saved from becoming lepers.

The Mission very largely relies on voluntary contributions for its support. Patroness: The Dowager Duches of Dufferin and Ava. Presti-dent: The Primate of Ireland. Head Office, 25, North Bridge, Edinburgh. Mr. Wellesley O. Balley, General Superintendent. General Secretary: Mr. W. H. P. Anderson, 20, Circular Place, Dublin. (Communications and subscriptions may be sent to Mr. T. Dobson, Scottish Mission Industries, Poona).

Berar, and the Pentecost Bands of the World Mission with a Boys' Orphanage at Dondi Tohars, C. P., a Girls' Orphanage at Raj Nandgaon, and a Leper Home at Raj Nandgaon, and a Mothari, Behar, in 1900, and now mork to Market And Tours and

Missionaries, operates in Montgomery Digitally Victoria Hospital, Eenares, was practically the Punjab), Nukkar Tiusil (U. P.), North Kanara (Bombay), Karjat-Karmala Talukas (Bombay), Omalur (Madras) and Bhagalkund Agency (C.I.), Christian community 2,000. Twelve schools. Two Dispensaries, Organ: The National Missionary Intelligencer (a monthly journal in Missionary Intelligencer (a monthly journal in National Missionary Intelligencer (a monthly intelligencer (a mont

in India in 1895. Work carried on in English, leaving one Bible woman working in the city in India in 1895. Work carried on in Engine.

Hindi, Urdu, Hengali, Santali, Tamil, Telugn.

Malayalom, Marathi, Gulerati, Burmese and and Karen; including schools, dispensaries and evangelical stations. *Irevident: W. W. Fletcher.

17. Abbott Road, Lucknow; *Treasurer: A. H.*

The Wesselm Stations Stationary Stationa

Williams : Secretary : R. D. Brisbid.
THE AMERICAN MENNONITE

THE AMERICAN MENNONITE MISSION.— Established 1899, works in the C. Provinces. Mission staff numbers 20, Indian workers 80, vities now include a hostel for women studies. Church members 581, 1 Indian workers 80, in addition to educational, social, and evange Institution, 1 High School, 1 Bible listle work. Warden, Miss Dobson, Girgaun. Orphanages, 1 Widows' Home, Asylum, Elementary Schools 8; School, 2 Home, Leper Dispensaries 3, Hospital 1. Superintendent : Rev.

DISPERSANCE AND ADDRESS OF THE MENONITE MISSION GENERAL CONTRENSE—Started in 1901 in the C. Provinces. Workers number 11; Leper, Medical, Orphan and village work carried on. From

the Leper Asylum 220 have been baptised.

Secretary: Rev. P. W. Penner, Jangir, C.P.
THE KUERU AND CENTRAL INDIA HILL

MISSION—Established 1890 in the C. P. and Derar, has a mission staff of 14, Indian workers 20; Churches 6, Communicants 105; Christian community 209; 2 Boarding and 5 Elementary schools, with 74 pupils. Secretary: Rev. Carl Wydner, Ellichpur, Berar.

THE CEVION AND INDIA GENERAL MISSION-Established 1803, occupies stations in India in the Coimbatore and Anantapur Districts.

Owes its existence to a period of famine, was commenced in 1889. Mission staff 11, Indian workers 22. There are elementary schools with 52 children, two orphanass and a Widows Home, where Industrial training is given. There are three Mission Stations—At Dhond, and at Bahralch, and Benares in United Provinces. Director, Rev. Albert Norton, Dhond, Poona

Ladies' Societies.

District.

ZENARA DIDLE AND MEDICAL MISSION.-This is an interdenominational society, with head parters in London, working among women healquarters in London, working among women and girls in seven stations in the Bombay Presidency, one in Madras, fourteen in United Provinces, and five in the Punjab. There are 56 European Missionary ladies on the staff and \$26 Assistant Missionarys [182 Indian workers, teachers and appears and 58 Bitle women. During Inland Mission, and has Kafristan as its object. 1915 there were 1.400 in-rotlents in the five tive.

THE NATIONAL MISSIONARY SOCIETY OF INDIA hospitals supported by the Society (Nasik, Established 1905, it has a staff of 35 Indian Benares, Jaunpur, Lucknow and Patna), but the issionaries, operates in Montgomery District Victoria Hospital, Benares, was practically the Punjab), Nukkar Thasil (U. P.), North closed in 1914 and so instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead of about 600 in the closed in 1914 and 800 instead Inclish sold at 8 as, per year post free).

General Secretaries: Mr. K. T. Paul, D.A., were so taught. The 78 Bible women visite L.T., and Mr. P. O. Philip, B.A., N. M. S. Office, 401 villages; the number of houses was 1,621.

Royapettah, Madras. B.A. women in Zenanas: 3,248 women in 2,778 houses were so taught. The 78 Bible women visited

THE LUDHIANA ZENANA AND MEDICAL MIS-THE SEVENTH DAY ADVENTISTS.—Established SION has removed its headquarters to Labore

THE MISSIONARY SETTLEMENT FOR UNIVERSITY WOMEN was founded in Bombay in 1895 to reach the higher class of Indian ladies, its acti-Bible listic work. Warden, Miss Dobson, Girgaum, Bombay.

THE MUETI MISSION, the well-known work of Pandita Ramabai, enables upwards of 350 widows, deserted wives and orphans to care comfortable living by means of industrial vois organised by the Pandita, supported by a good staff of Induan helpers. A large staff of Lumpean Missionary Ladies do evangelistic work in the surrounding Redgnon, Poona District.

Disciple Societies.

The India Mission of the Disciples of Christ (Foreign Christian Missionary Society of Carcinnati, Ohio, and Christian Women's Board of Missions of Indianopolis combined) commence work in 1882; its area Central and United Provinces; number of Indianopolis Churches 14. and immersed communicants 1,560. Its stall, including Missionaries' wives, 67; Aset, mission aries 3, and Indian Worker's staff 301. There are 7 Hospitals, 17 Dispensaries, with 122,500 Mission staff 23; Indian workers 70; Churches, in-patients and out-patients for the past year. 10, with Communicants 256, and Christian Three Orphanages and an Industrial Home schools 27; pupils 641.

Steretary: Pastor W. Mailis, Coonoor, Nilgiris Industrial work a farm of 400 acres has been taken at Damoh. There are 8 Middle schools, industrial work a farm of 400 acres has been taken at Damoh. There are 8 Middle schools 41 Primars echools with 3,126 scholars; 2 Penriling schools, with 247 students. An active z man work is carried on, and there is a home ter women and children.

The Australian branch has three Missign stations in Poona District. The Great Britain and Ireland branch has two mission stations, one in Mirzapur District, U. P., and one in Palaman District, Orissa. These have no organic connection with the India Mission of the Dis ciples of Christ.

Secretary: Rev. D. O. Cunningham, M.J., Bilaspur, C.P.

English languages. Owing to the internment of now established in all the political Divisions.

a number of missionaries belonging to the Basel India. Its number of baptised Continued to be a second to baptised Continued to baptised to baptised Continued to baptised Continued to baptised Continued to baptised Continued to baptised to baptised Continued to baptised to bapti Mission; it has been impossible to revise the above figures most of which are for 1914. Secretary: Rev. B. Luthi, Mangalore.

THE CHURCH OF SWEDEN MISSION—Was founded in 1874. Operated till 1915 in the Madura, Tanjore, Trichinopoly and Rammad Districts. Since 1915 the Mission having taken full charge of the former Leipzig Evangelical Lutheran Mission field, works also in the Madras, Children Mission field, works also in the Madras, Chingleput, Coimbatore, Salem and S. Arcot Districts with diaspora congregations in Ranpostices with diaspora congregations in Rangoon, Penang and Colombo. European staff
numbers 21. Ordained Indian Ministers 36,
Indian workers 74. Organised Churches 41,
Baptised Membership 20,782. Schools 203,
Pupils 12,312 (9,394 boys, 2,918 girls). Teaching staff 620. Sceretary, Rev. E. Houman, P.H.D., Trichinopoly.

THE MISSOURI EVANGELICAL LUTHERAN MISSION—Is located in Arcot, Tinnevelly and Travancore with a staff of 0 Missionaries. Two 7. Training schools, 169 pupils, and 49 Elementary schools with 2,272 pupils are connected with the Mission. Secretary: Bev. J. Harmr, Trivandrum, Travancore.

THE DANISH EVANGELICAL LUTHERAN MIS-SION.—Established 1863 in South Arcot, working there and in North Arcot, on the Shevaroy Hills and in Madras, has a total staff of 44 Missionaries and 211 Indian workers. Communicants 004, Christian community 2,210, 1 High School, 2 Boarling Schools, 4 Industrial Schools, Elementary Schools 58, total scholars 3,484; Dispensary patients 21,849.

Chairman: Rev. J. Bittmann, 38, Brondway,

Madras.

GERMAN T_{WE} EVANGELICAL LUTHERAN (GOSSKER's MISSION)-Founded 1836, occupies stations in Bengal Bihar and Assam; the Mission staff Rumbers 02, Indian workers 1,017: Communicants 84,208, and Christian 1,017: Communicants 34,205, non Chilocolacter Community over 100,000; organised Churches, 137. Theological and Teacher's Seminaries: 86; pupils. Boarding Schools: 39. Elementary Schools: 277. Pupils in schools: 9,355. Leper asylum: 723 lumates. Lace schools in Ranchi and Purulia. Secretary: Rev. Paul Wagner, Purulia, B. N. Riy., Manbhum Bihar, Head-quarters, Fridenaw, Berlin, Germany.

THE SANTAL MISSION OF THE NORTHERN HURGHES (formerly known as the India CHURCHES (formerly Home Mission to the Santais)—Founded in 1867, works in the Santai Parganas, Goal-para (Assam), Maida and Dinnjour, Work is principally among the Santais. The mission is principally among the Sauthis. The mission staff numbers 24; Indian workers 342; communicants 3,000; Christian community 18,000; organised churches 36; boarding schools 2; pupils 310; elementary schools 31; pupils 535; industrial school, 1. Secretary: Rev. P. O. Bodding, Dumka, Sautal Parganax.

Methodist Societies.

The Methodist Episcopal Church began its Indian Mission in 1857, and with the exception

stands at 206,275, under the supervision 240 ordained and 900 unordained M Schools of all grades number 1,569 with an, " students, Sunday School scholars stand 120,000, and young peoples' societies at 604 generally known as Epworth Leagues. This, Anglo-Indian Congregations are found in f inrger Cities, with one College, 6 High schools and numerous Middle schools for this For Anglo-Vernacular Education the mission .. 3 Colleges, 12 High schools and 62 schools Lower grade. The net increase from the non Christian races has been at the rate of 15,00 per annum, for the last decade. The Isabella Thoburn Training College at Lucknow is a large Institution. There are large printing presses at Calcutta, Madras and Lucknow.

In Burma there are 9 schools, with 1,481 pupils, a large Boarding and Day school for European girls at Rangoon, a hill station Boarding school for girls at Thandaung, and an Anglo-Indian Church at Rangoon.

While fluancially supported by the Board of Foreign Missions of the American Methodist Episcopal Church, ecclesiastically the Clurch in India is independent of foreign control, being under the supervision of its own bishops, viz., Bishop, F. W. Warne, Lucknow. Bithop, J. E. Robinson, Bangalore, and Bishop, J. W. Robinson, Bombay. Robinson, Bombay.

The American Wesleyan Church with a Missionaries, has in recent years taken over an independent Mission at Pardi and Daman Gujerat District. Secretary: Rev. A. E. Ashton,

The Reformed Episcopal Church of American (Methodist) at Lalitpur and Lucknow U. P. hal 2 Missionaries, 4 Outstations, 2 Orphanages, and a membership of nearly 100.

THE WESLETAN METHODIST MISSIONARY SOCIETY commenced work in India in 1817 SOCIETY commenced work in India in 1814 (Ceylon in 1814). The Mission in India is organised into 10 District Synods with 3 Provincial Synods. There is a large English work connected with the Society, 20 ministers giving their whole time to Military work and English churches.

The districts occupied include 64 main stations in Bengal, Madras, Mysore, Bombas, Punjab, Central Provinces, Hydorabad (Nizme Lominions), Trichinopoly and Burma. The European staff numbers 148 with \$,150 Indian workers; Communicants 19,633, and total Christian community 58.233. Organised Churches 93. ches 93.

Educational work comprises 7 Ohristian Colleges, students, 3,807; D Theological Institu-tions, pupils, 129; 21 High Schools, pupils, 5,543; 10 Industrial schools, pupils, 2008, 1163 Eleto Industrial schools, pupils, 602; 1,163 Einentary schools, with 68,400 scholars. In Medical work there are 12 hospitals, 22 dist pensaries, 18 qualified doctors, 4,757 in patient and 285,806 attendances at the dispensaries.

The above particulars are those published for 1915.

Vice-Chairman of General Synod; Rev.

The Women's Foreign Missionary Society of the M. I. Mission is divided into 4 Conferences and is co-extensive with the main work of the Mission. I 10 Lady Missionaries are engaged in Educational Zenan, and Evangelistic and Medical work. The Secretary for the Educational Conference is Missionaries and its cants 70; 1 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 0 Communication of Lawson, Missionaries and 10 Industrial and 10 Indust

ROYAL ARMY TEMPERANCE ASSOCIATION.

Panying the troops through the Afghan War, and bringing an extended tour through Egypt, and bringing the work into close touch with troops, both during peace and war, in the bered about 11,000 members. He was followed by a Madras Chaplain who after two Chief, organised his Scheme for Regimental Effect on the life bave had a wonderful in 1886, the late Lord Roberts Commander-in-Life, organised his Scheme for Regimental East; and the Total Abstinence Society was so far incorporated into the scheme as the same difference is the Mary Temperance Association, and the Army Temperance Association, and the Army Temperance Association, and the Work of Various Societies thus linked the work of various Societies thus linked the work of the Army Temperance Association, and Societies thus linked the work of the Army Temperance Association, and Societies thus linked the work of various Societies thus linked the work of the Army Temperance Association, and Gettler, work of various Societies thus linked there were 4,581. In regard to the character work of the Association and Society—In 1889 there or Very Good; the remainder were for the Same difference is the care the work of the Association, and Societies thus linked there were 4,581. In regard to the character of the Association of the Exemplary characters, and 30 per cent. either Exemplary characters are proposed to the character with the control of the Association of the Exemplary characters, and 30 per cent. either Exemplary were for the control of the Association of the Colours obtained Exemplary were for the control of the Association of the Colours obtain

steadily from that date and still increases,

Growth of the Society — In 1889 there
were 12,140 members; in 1800, 20,088; in 1900,
or over 45 per cent, of the total was 35,000,
India, In 1905, the Secretary laving redicted by 1. Secretary laving redicted

In 1662 there was started among the British troops in Agra a small Society, under the into work of every kind, in the interests of soldiers. Total Abstinence Society.

Soldiers' Among soldiers has gradually grown to over kind, in the interests of soldiers. Promotion of sport, occupation of In Civil Life, advice and information on the subject of Emigration, provision of Furlough For some ten years the Society.

For some ten years the Society struggled with stations, but at the end of that time, though success, apreading to other Garrison induces, and the end of that time, though success, and was the end of that time, though success, and was the first Society whose its value to them, and to the support of the work, through the induced that it is work gradient in the Association, and to the fillency of the work of the support of the work in success. The wonderful change of the induce of the induced the success of the of men enlisted, and so on, but the R. A. T. A. the has always been given its due share among other causes, by all authorities and Blue manding Divisions, Brigades and Blue manding Divisions, Brigades and Units, These changes in conduct are seen most Army in India.

from the Colours obtained Exemplary, characters, and 03 per cent, either Exemplary or Very Good; the remainder were for the most part men who, after tome were for the leavy drinking, had towards the end of reform themselves, but not soon enough to avoid the consequences of provious every

whole British Army receives the attention special attention being paid to small detaching the Association. What primarily has been discretized of the Association, namely, the containing nearly 50 per cent. of the containing nearly 50 per cent. of the new arrows of the consistently ever

since. In addition to covering all troops from Aden to Singapore, the R. A. T. A. is the only Society working among the Troops of LEF. "D", the force in the Persian Gulf. Institutes have been opened and the cordial good will of the authorities enables the R. A. T. A. to provide many amenities to the very trying experiences of this Force. The men relieved, sent back to India for periodic rest, in addition receive a warm welcome and entertainment at the hands of the Association. The following is the organication of the Council and management:-

Patron: His Majesty the King Emperor. President: His Excellency the Commanderin-Chief. Council:

The General Officers, Heads of Departments, Army Headquarters.

The General Officers Commanding Divisions. Two Officers Commanding Regiments.

Officers of the R. A. M. C. and I. M. S. . Two Regimental Quartermasters.

: Representatives of the various Churches. Executive Committee.

Brig.-General T. M. Luke, D.S.O , Presi-

Lt. Colonel A. Shairp, C.M.G.

Major A. C. P. Cochran.

Captain F. H. Moody, M.C.

General Scoretary: Lt.-Col. G. W. F. Brown, Auditor: Neison, King and Simson.

Bankers: Bank of Bengal and Alliance Bank of Simia.

Head Office: Talbot House, Simla.

Official Organ: "On Guard," published monthly.

(Rs. 3 per annum.)

ANGLO-INDIAN TEMPERANCE ASSOCIA-MON-Tounded in 1888 by the late Mr. W. S. Caine, N.P., is a Home Association which has been the means of establishing a net work of Temperance Societies throughout the Indian Empire, and has provided a common platform upon which Christians, Hindus, Mahomedans and Parsis unite for the moral elevation of the Indian peoples. There are 280 Indian Societies affiliated with the Association. The President is Sir J. Herbert Roberts, The President is Sir J. Herbert moderns, Bart., M.P. and Secretaries, Sir Bhalchandra Krishna, Kt., L.M. (Bombay), and Mr. John ciples depends more largely upon the Turner Rae (London). The interests of the individual Societies constituting the Conference of the C Parliament by the President, and the Rt. the methods are Hon. T. R. Ferens, M.F., Mr. J. Herbert representations Lewis, M.P., and the Rt. Hon. Sir Thos. White preachers. Two taker, M.P., all of whom are members of the through various

THE ALL-INDIA TEMPERANCE CONFERENCE. Growing out of the Association mentioned above and in closest relation with it is the All-India Temperance Conference, formed in 1903, which meets every year, as a matter of convenience, at the same time and place at the Indian National Congress, but having no official connection with it. The President official connection with it. The President is elected annually. The President for 1914 was the Rev. Herbert Anderson. The membership of the Conference is the 280 Indian Temperance Anglo-India affiliated with the Temperance Association as above, from each of which delegates are sent to the Annual Meeting of the Conference. Special Counciliation embracing Presidency Societies are established at Bombay, Allahabad, Calcutts and Madras, each of which has its own local President, Secretary and Committee. The Bombay Temperance Council was inaugurated in 1807. It consists of delegates elected by about 23 different temperance, religious and philanthropic societies at work in Bombay. Poona, Ahmedabad and Surat, including several of the Christian churches, the International Order of Good Templars, the International Order of Rechabites and the Women's Christian Temperance Union. The medium of communication between the Societies composing the Conference is the Abkari, published quarterly from England by the A. I. T. A. Amongst the general aims of the Conference may be mentioned:

The separation of the licensing from the revenue:

The doing away with the present system of license auctioneering;

The reduction of the present number of liquor shops and the prevention of the formation of new ones in important positions especially in the crowded areas:

The later opening and the earlier closing of liquor shops, and the entire closing of them on public holidays;

The introduction of Temperance Teaching in the Government Elementary Schools and Colleges, which despite the desire of Gor-ernment expressed in their Circular letter No. 730-37 of 12th Sept. 1907 to "deal with the subject of intemperance in a few sensible lessons in the sanctioned Readers has not yet been adequately treated and

itinerant . and singing bv Twelve Lecturers travel paid Association's Council. The Association public meetings and addressing the masses wherever lishes a quarterly journal Akkari, edited by possible. Educational work is especially to the front in the Punjab district through the Home Park Road Wimbledon.

Warrant of Precedence.

(Brought up to 1 July 1016.)

ICTORIA, by the Grace of God of the United Kingdom of Great Britain and Ireland Queen, Defender of the Palth, Empress of India,—

To all to whom these presents shall come: WHEREAS it hath been represented unto Us at it is advisable that the rank and precedence persons holding appointments in the East idles as regulated by Our Royal Warrant, ited the 18th day of October, 1876, should be tered, We do therefore hereby declare that it Our will and pleasure that in lieu of the table id down in Our said recited Warrant, the fol-wing table be henceforth observed with respect to the rank and precedence of the persons here-lafter named, riz.:—

- 1. Governor-General and Viceroy of India.
- 2. Governors of Madras and Bombay.
- 3. President of the Council of the Governoreneral.
- 4. Lieutenant-Governor when in his own erritories.
- 5. Commander-in-Chief in India.
- 6. Lieutenant-Governor.
- 7. Chief Justice of Bengal.
- 8. Bishop of Calcutta, Metropolitan of India.
- 9. Ordinary Members of the Council of the lovernor-General.
- 10. Commander-in-Chief of Her Minjesty's vaval Forces in the East Indies.
- 11. Chief Justice of a High Court other than hat of Bengal.
 - 12. Bishops of Madras and Bombay.
- 13. Ordinary Members of Council in Madras and Bombay.
- 14. Lieut. Generals Commanding the Forces, lanjab, Bengal, Madras and Bombay.
- 15. Chief Commissioners of the Central Provinces and Assam, Residents at Hyderabad and in Mysore, and Agents to the Governor-seneral in Rajputana, Central India, and Baluchistan.
 - 16. Puisne Judges of a High Court.
 - 17. Chief Judge of a Chief Court.
- 18, Military Officers above the rank of Major-Jeneml.
 - Comptroller and Auditor-General.
 Additional Members of the Council of the
- Governor-General for making Laws and Regulations.
- 21. Bishops of Lahore, Rangoon, and Lucknow.
 - 22. Secretaries to the Government of India.
 - 23. Commissioner in Sind.
- 24, Judges of a Chief Court, Recorder of Rangoon and Judicial Commissioners, Burma.
- 25. Chief Secretaries to the Governments of Madms and Bombay. 26. Major-Generals, Members of a Board of
- 26. Major-Generals, Members of a Board of Revenue, Commissioners of Revenue and Customs, Bombay; Financial Commissioners, Punjab and Burma,

- 27. Judicial Commissioners, including Additional Judicial Commissioners of Outh, the Central Provinces, and Sind.
- 28. Additional Members of the Councils of the Governors of Madras, and Bombay for making Laws and Regulations, Members of the Legislative Council of a Lieutenant-Governor.
 - 29. Vice-Chancellors of Indian Universities.

FIRST CLASS.

- 30. Members of the Indian Civil Service of 30 years' standing.
 - 31. Advocate-General, Calcutta.
- 32. Commissioners of Divisions, the Superintendent of Port Biair, and Residents, Political Agents, and Superintendents drawing Rs 2,000 a month and upwards (not being Collectors or Deputy Commissioners of British Districts), within their respective charges.
- 33. Chief Secretaries to Local Governments other than those of Madras and Bombay.
- 34. Surveyor-General of India, Directors-General of the Post Office, of Telegraphs in India and of Railways, Chief Engineers, first class, Accountants-General, Military and Public Works Departments, Director, Royal Indian Marine and Manager, North-Western Railway.
- 35. Bishops (not territorial) under license from the Crown.
- 30. Archdeacons of Calcutta, Madras and Bombay.
 - 27. Brigadiers-Genéral,
 - 38. Commissioners of Divisions.
- 39. Commissioner of Northern India, Salt Revenue, and Opium Agents, Benares and Bihar.
- 40. Secretaries and Joint Secretaries to Local Governments, and Private Secretary to the Vicercy.

SCOOND CLASS.

- 41. Members of the Indian Civil Service of 23 years' standing and Colonels.
 - 42. Military Secretary to the Viceroy.
- 43. Judicial Commissioners of the Hyderabad Assigned Districts and Baluchistan; the Superintendent of Port Blair; Residents, Political Agents, and Superintendents drawing Rs. 2,000 a month and upwards (not being Collectors or Deputy Commissioners of Dritish Districts).
- 44. Inspector-General of Forests in India, and Director of the Geological Survey.
- 45. Standing Counsel to the Government of India.
- 46. Directors of Public Instruction, and Inspectors-General of Police and Prisons under Local Governments, and Accountants-General.
- 47. Survey Commissioner and Director of Land Records and Agriculture, Bombay; Commissioners of Settlements; and Controllers of Military Accounts.
- 48. Chief or Senior Civil Secretary to a Local Administration.

49. Chief Engineers, second and third classes; Deputy Surveyor-General; Deputy Director-General of Telegraphs in India, and Director-in-

Chief, Indo-European Telegraph Department.
50. Divisional, and District and Sessions Judges, Collectors and Magistrates of Districts; Deputy Commissioners of Districts; Deputy Superintendent of Port Blair; and the Chief Officer of each Presidency Municipality; within their respective charges.

51. Archdeneous of Lahore, Lucknow, and Rangoon.

52. Deputy Secretaries to the Government of

India.
53. The Senior Chaplains of the Church of Scotland in Bengal, Madras, and Bombay.

54. Remembrancers of Legal Affairs and Government Advocates under Local Governments.

65. Officers in the First Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service.

50. Members of the Indian Civil Service of 18 years' standing and Lieutenant-Colonels. 57. The Deputy Director, Royal Indian Marine.

58. The Assistant Director, Royal Indian Marine.

59. Commanders and Inspectors of Machinery, Royal Indian Marine.

THIRD CLASS.

00. Political Agents and Superintendents drawing less than Rs. 2,000 a month (not being Collectors or Deputy Commissioners of British Districts) within their own charges.

'61. Secretaries to Local Administrations other than those already specified.

62. Consulting Engineers to the Government for India and Railways.

63. Private Secretaries to Governora,

64. Military Secretaries to Governors.

65. Administrators-General. -

66. Sanitary Commissioners under Local Governments; Postmasters-General; the Comptroller, Post Office; and Conservators of Forests, first grade.

67. Directors of Public Instruction, Inspectors-General of Police and Prisons under Local Administrations, and Comptrollers and Deputy Auditors-General.

68. Managers of State Railways other than the North-Western Railway; Chairman of the Port Trust, Bombay, and Chairman of the Port Trust, Calcutta.

00. Vice-Chairman of the Port Trust, Calcutta; Directors of Traffic and Construction, Indian Telegraph Department; Examiners of Accounts, Public Works Department, first class; Officers of the Superior Revenue Establishment of State Railways, first class, first grade; Superintending Engineers, Public Works Department, first class; Superintendents of the Survey of India Department, first grade.

70. Inspectors-General of Registration and Directors of Land Records and Agriculture, under Local Governments.

71. Scalor Chaplains other than those already specified,

72. Sheriffs within their own charges-

73. Officers in the Second Class Ornded List of Civil Officer not reserved for Members of the Indian Civil Service.

FOURTH CLASS.

74. Members of the Indian Civil Service of, 12 years' standing, and Majors.

75. Licutenants of over S years' standing, and, Chief Engineers of the Royal Indian Marine.

76. Government Solicitors.

77. Inspectors-General of Registration, Sanitary Commissioners, and Directors of Land Records and Agriculture under Local Administrations.

78. Officers in the Third Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service.

The entries in the above table apply exclusively to the persons entered therein, and, while regulating their relative precedence with each other, do not apply to the non-official community resident in India, the members of which shall take their place according to mage.

Officers in the above table will take precedence in order of the numbers of the entries. Those included in one number will take precedence inter se according to the date of entry into that number.

When an officer holds more than one position in the table, he will be entitled to the highest position accorded to him.

Officers who are temporarily officiating in any number in the table will rank in that number below permanent incumbents.

All officers not mentioned in the above table; whose rank is regulited by comparison with rank in the army, to have the same rank with reference to civil sevants as is enjoyed by Military Officers of equal grades.

All other persons who may not be mentioned in this table, to take hink according to general usage, which is to be explained and determined by the Governor-General in Council in case any question shall arise.

Nothing in the foregoing Rules to disturb the existing practice relating to precedence at Native Courts, or on occasions of intercourse with Natives, and the Governor-General in Council to be empowered to make rules for such occasions in case any dispute shall arise.

All ladies to take place according to the rank herein assigned to their respective husbands; with the exception of wives of Peers, and of ladies having precedence in England Independently of their husbands, and who are not in rank below the daughters of Barons, such ladies to take place according to their several ranks; with reference to such precedence in England, immediately after the wives of Members of the Council of the Governor-General.

the Council of the Governor-General.

Given at Our Court at Windsor this tenth day of December, in the year of Our Lord One thousand eight hundred and ninety-eight, and in the sixty-second year of Our Reign.

By Her Majesty's Command. (Signed) Gronge Hamilton,

Supplementary Graded List of Civil Offices not Reserved for Members of the Indian Civil Service prepared under the orders of the Governor-General in Council.

"l'inst Class-(No. 55 of the Warrant).

Away Master of the Mint, Calcutta and Bombay.

Older Judges of Presidency Courts of Small Causes.

Commissioners of Police, Calcutta, Madras, Bombay, and Rangoon,

Controller of Printing and Stationers.

Deputy Comptroller-General.

Director-General of Archivology.

Director of the Botanical Survey of India.

Director, Zoological Survey of India. Inspector-General of Agriculture in India.

Masters of the Mint, Calcutta and Bombay.

Meteorological Reporter to the Government of India.

Superintendent of Revenue Survey, Madras. Superintendent, Trigonometrical Surveys.

*SECOND CLASS-(No. 73 of the Warrant).

Actuary to the Government of India.

Adviser on Chinese Affairs in Burma.

Agent General in India for the British Profectorates in Africa under the Administration of the Foreign Office. . .

Chief Collector of Cu-toms, Burma.

Chief Constructor of the Royal Indian Marine Dockyard at Bombay.

Chief Inspector of Mines in India.

Cider Presidency Magistrates.

Chief Superintendents of the Telegraph Department,

Collector of Customs and Salt Revenue, Sind.

Collectors and Magistrates of Districts; and Deputy Commissioners of Districts and of Settlements.

Conservators of Forests, 2nd and 3rd . Grades.

Consulting Surveyor to the Government of Bombay.

Deputy Accountants-General under Local Governments.

Deputy Directors of Telegraphs,

Deputy Inspectors-General of Police.

Deputy Superintendent of Port Blair.

Directors of the Persian Gulf Section, and of the Persian Section of the Indo-European Telegraph Department.

Directors of Telegraphs, 2nd, 3rd and 4th Classes.

Director of Statistics.

Divisional and District and Bessions Judges. Emigration Agent at Madras. . .

Examiners of Accounts, Public Works - Department, 2nd and 3rd Classes.

Government Astronomer, Madras.

Government Emigration Agents at Calcutta for British Guiana and Natal, and for Trinidad, Flil, Jamaica, and Mauritius.

Imperial Bacterlologist.

Inspector of Mines to the Government of India.

Librarian, Imperial Library.

Principal of the Mayo College at Ajmer.

Principal of the Rajkumar College at Rajkot,

Officers in charge of the Records of the Government of India.

. Officers of the Indian Educational Service, and of the graded Educational Service drawing its. 1,250 a month and upwards.

Officers of the Superior Revenue Establishment of State Railways, 1st Class, 2nd and 3rd Grades.

Reporter on Economic Products.

Superintendent of the Royal Botanics Gardens, Calcutta.

Superintendents, Geological Survey of India, Superintendents of Revenue Survey and Assessment, Bombay,

Superintendents of the Survey of India Department, 2nd Grade,

Superintending Engineers, Public Works Department, 2nd and 3rd Classes.

Under Secretaries to the Government of India.
*Thing Class—(No. 78 of the Warrant).

Agricultural Chemist,

Assistant Directors of Dairy Farms.

Assistant Inspector-General of Forests.

Assistant Secretaries to the Government of India.

Chief Chemical Examiner, Central Chemical Laboratory, Nainital.

Collector of Stamp Revenue, Superintendent of Excise Revenue, and Depyty Collector of Land Revenue, Calcutta.

Commander of the steamer employed in the Persian Gulf Section of the Indo-European Telegraph Department.

Constructors of the Royal Indian Marine .

Dockyards at Bombay and Kidderpore.

Deputy Administrator-General, Bengal.

Deputy Collector of Salt Revenue, Bombay. Deputy Commissioner of Northern India, Salt

Revenue.

Deputy Commissioners of Police, Calcutta

and Bombay.

Deputy Commissioners of Salt, Abkarl and Customs Department, Madras.

Deputy Conservators of Forests drawing Re. 800 a month and upwards.

Deputy Lirectors of Land Records and Agriculture, Madras and Burma.

^{*} The entries in each class are arranged in alphabetical order.

Deputy Director of the Imperial Forest School, Dehra Dun,

Deputy Directors of Revenue Settlements and Deputy Superintendents of Revenue Surveys,

Deputy Postmasters-General of the 1st, 2nd and 3rd grades.

Deputy Superintendents, Geological Survey of India.

Doputy Superintendents, Survey of India Department.

District Superintendents of Police drawing Rs. 800 a month and upwards.

Engineer and Electrician of the Persian Gulf Section of the Indo-European Telegraph Department.

Examiners of Accounts, Public Works Department, 4th class, 1st and 2nd grades.

Executive Engineers, Public Works Department, 1st and 2nd Grades.

Inspector-General of Railway Mail Service.

Judge of the City Civil Court, Madras.

Judges of Presidency Courts of Small Causes, and First Judge of the Small Cause Court,

Manager of the Cordite Factory, Aruvankadu.
Officers of the Indian Educational Service
and of the graded Educational Service, drawing
less than Rs. 1,250 a month, but more than
Rs. 1,000 a month.

Officers of the Superior Revenue Establishments of the State Railways, Second Class 1st and 2nd Grades.

Palwontologist, Geological Survey of India.

Presidency Magistrates.

Protector of Emigrants and Superintendent of Emigration, Calcutta.

Public Prosecutor in Sind.

Registrars to the High Courts and to the Chief Court, Punjab.

Sub-Deputy Oplum Agents drawing Rs. 800 a month and upwards.

Superintendent of the Indian Museum.

Superintendent of Land Records and Agri-

Superintendents of Stamps and Stationery.

Superintendents, Telegraph Department, 1st and 2nd Grades.

Under the orders of Her Majesty's Secretary of State for India, the following table showing the relative rank of officers in the Army, Royal Navy, and Royal Indian Marine is attached to the Warrant of Precedence for India, published with Home Department Notification No. 328, dated the 10th February 1890:—

Captains under 3 years and officers of corresponding rank, Royal Navy. Deputy Director, Royal Indian Marine. Assistant Director, Royal Indian Marine. Commanders, Royal Navy. Lieut.-Colonels ... Commanders, Royal Indian Marine. Staff Commanders and officers of corresponding rank, Royal Navy. Inspectors of Machinery, Roya Royal Indian Marine. Indion Chief Royal Engineers. Marine.

But Junior to all Lieut, Colonels.

Lientenants of 8 years' seniority and officors of corresponding rank, Royal Navy.
Lieutenants, Royal Indian Marine, over 8 years' seniority.
Engineers' Royal Indian Marine, of and over 9 years' seniority.

But Junior to all Majors.

Captains .. .-

Licutenants under 8 years and officers of corresponding rank, Royal Navy.
Licutenants, Royal Indian Marine, under 8 years' seniority.
Engineers, Royal Indian Marine, under 9 years' seniority.

Sub-Licutemants

Marine.

But Junior to all Army Captains.

Lieutenants ..

corresponding rank, Royal Navy.
Sub-Licutenants, Royal Indian
Marine.
Assistant Engineers, Royal Indian

and

officers

But Junior lo all Lieutenants.

Nabha. The Maharaja of. Narsinghgarh. The Raja of. Navanagar (or Nawanagar). Palanpur. The Diwan of. The Mahara jah of. Palanpur. The Diwan of. Panna. The Maharaja of. Porbandar. The Maharana of. Pudukkottai (or Puddukottai). The Raja of. Radhappur. The Nawab of. Rajgarh. The Raja of Rajpipla. The Raja of. Ratiam. The Raja of. Sallana. The Raja of. Samthar. The Raja of. Sirmur (Nahan). The Raja of. Sitaman. The Raja of. Sitamail. The maja of. Suket. The Raja of. The Raja of. Tehri (Garhwal). The Raja ot. Salutes of 9 guns. All Rajpur. The Raja of Balashor (or Vadashor). The Kawab (Babi) of. Baneda. The Raja of. Baneda. Baraundha. The Raja of. Barwari. The Raja of. Barwari. The Rana of. Chhota Udepur (or Mahun). Dharampur. The Raja of. Dhrol. The Thakur Sahib of. The Raja of. Fadthii (Shukra). The Sultan of. Hsipaw (or Thibaw). The Sawbwa of. Karond (Kalahandi). The Raja of. Kengtung (or Kyaington). Khilchipur. The Rao of. The Sawbwa of. Kishn and Socotra. The Sultan of, Lahej (or Al Hauta). The Sultan of. The Thakur Sahib of Lunawara (or Lunavada). The Raja of. Malbar. The Raja of. Maler Kotla. The Nawab of. Mong Nai. The Sawbwa of. Nagod. The Raja of Palitana. The Thakur Sahlb or, Rajkot. The Thakur Sahlb of, Sachin. The Nawab of, Savantvadi. The Sar Desni of. Shehr and Mokalla. The Sultan of The Reja of Sunth. Vankaner (or Wankaner). The Raj Sahib of. Wadhwan (or Vadwan). The Thakur Sahib of. Yawnghwe (or Nyaungywe). The Sawbwa of.

Personal Salutes.

Salutes of 21 Juns. wallor. Honorary Major-General His High-ness Maharaja Sir Madho Rao Sindhia Bahadur, G.C.S.I., G.C.V.O., A.D.C., LL.D., Maharaja of

Honorary Major-General His High-Jaipur. Maharajadhiraja Sir Sawai Madho Singh Bahadur, 6.0.8.I., 6.0.1.E., 0.0.v.0., LLD., Maharajs of: Kolhapur, His Highness Sir Shahu Chhatra-

pati Maharaj, G.O.S.I., G.O.I.E., G.C.V.O.,

LL.D., Maharaja of. Mewar (Udaipur). His Highness Maharaja-dhiraja Maharana Sir Fatch Singh Bahadur,

G.C.S.I., G.C.L.E., Maharana Of. Travancore. His Highness Sri Maharaja Raja Sir Bala Rama Varma Bahadur, G.O.S.I., G.C.J.E., Maharaja of.

Salutes of 10 guns.

Cochin. His Highness Raja Sree Sir Ram Varmah, G.C.S.I., G.C.I.E., Raja of.

Mysore. Her Maharani Kempa Highness Mysorc. Her Highness Maharani Armia Nanjammani Avaru Yanivilas, c.i., of. Nepal. Honorary Major-General His Excel-lency Maharaja Sir Chandra Shumshero Jung, Bahadur Rana, G.C.B., G.C.S.I., G.C.Y.O. D.C.L., Prime Minister, Marshal of. Salutes of 17 guns.

Jodhpur. Honomry Major-General His High-ness Maharaja Bahadur Sir Pratab Singh, o.c.s.i., o.c.v.o., K.O.B., A.D.G., Regent of. Orchha. His Highness Maharaja Mahindra Sawai Sir Partap Singh Bahadur, G.O.S.I.; G.O.I.E., Maharaja of.

Salute of 13 guns. Palanpur. His Highness Nawab Sir Sher Muhammad Khan Zorawar Khan, G.C.L.E., Diwan of.

Salutes of 11 guns. Barwani. His Highness Itana Ranjit Singh of Bhor. His Highness Shankar Ray Chimnaji, Pant Sachiv of.

Lahej (or Al Hauta). His Highness Abdul Karim-bin-Fadthi-bin Ali.

Maler Kotla. His Highness Ahmud Ali Khan Bahadur, Nawab of. Shehr and Mokalla. His Highness Sultan Ghallb-bin-Awadth Al-Kayti, Sultan of Salutes of 9 guns.

Danta, Shri Hamirssinhji Jaswatsinhji, Maharanc of, Kanker. Maharajadhiraja Komal Deo, of. Las Bela. Mir Kamal Khan, Jam of. Loharu. Nawab Sir Amir-ud-din Ahmad

Khan Bahadur, K.C.I.E., of.
udhol. Meherban Malojirao Vyankatrav Mudhol. Raje Ghorpade, alias Nana Saheb, of. Dihala Amir Kase Shaif, ot.

Local Salutes. Salutes of 21 guns. The Begam (or Nawab) of Bhopal. Gwallor. The Maharaja (Sunuar, Indore. The Maharaja (Holkar) of Indore. The Maharaja of Kashmir. The Maharaja of

Salutes of 5 guns. The Shcikh of Koweit. The Sheikh of Bahrein. The Shelkh of Abn Thabi. Salutes of 3 guns.

The Shelkh of Debal. The Sheikh of Shargah. The Sheikh of Ajman. The Sheikh of Um-el-Kawain. The Sheikh of Ras-al-Kheima Local Personal Salutes.

These are fired on the termination of an official visit.

Salute of 13 guns. His Excellency the Govr. of Bushire. Salutes of 12 guns.

The Shelkh of Mohammerah. The Shelkh of Kowelt.

Salute of 11 guns. The Shelkh of Bahreln.

Salutes of 5 guns.

Eldest son of the Sheikh of Mohammerah. Eldest con of the Shelkh of Kowelt. Salutes of 5 guns.

The Govr. of Mohammerah, The Govr. of Bunder Abbas, The Govr. of Lingah.

Salute of 8 guns. Eldest son of the Shelkh of Bahrein.

SALARIES OF CHIEF OFFICERS.

The following are the tables of salaries sanctioned for the Chief Officers of the Administration of India. The tables are liable to variation, and it should be noted that the pay of members of the Indian Civil Service is subject to a deduction of 4 per cent. for subscription towards annuty;—

annuity;					-				
				٠				Pay	per Annum Rs.
Viceroy and Governor-General									2 50 500
Private Secretary to Viceroy		• • •	* *		- ::	••		• •	2,50,800
Military Secretary and Alde-de-C	amp to	Vicero	Ψ					• • •	40.000
Surgeon to Viceroy						• •	• •	•••	14,400
Commander-in-Chief of the Force	s in Inc	lls						• • • • • • • • • • • • • • • • • • • •	1,00,000
Military Secretary to Commande	r-In-Chi	of in In	dla						18,000
Members (6) of the Governor-Ger	iemi's C	ouncil	* *						60,000
President, Rallway Board	**	* *						60,000	or 72,000
Member, Rallway Board									48,000
Secretaries to the Government o	f India	In the	Army	and 1	Public 1	Carles	nd T	പത്രീര -	•
TIVE DENSITIENTS									42,000
Secretaries to the Government of	Indla I	n the	Financ	e. For	elzn. H	ame. R	ecent	te and	_ <u></u>
Agriculture, Commerce and 1	ndustry	and I	ducati	on De	partme	nts	7102		48,000
Laucational Commissioner	**	• •	**					30,000	to 36,000
Comptroller and Auditor-General		* *							54,000
Controller of Currency	8.0	* *						36,000	to 42,000
2 Accountants-General, Class I	* *	**	* *			4.0		**	33,000
3 ,, ,, <u>11</u>	**					9.0		9.9	30,000
1 Commissioner of Northern Indi		**	**		11				27,000
					* *	9.6	• •	1000	30,000
1 Director-General of Posts and 1 2 Postmasters-General	reregial.	шэ	• •	* *	* *	4.0			to 48,000
		• •			• •			• •	30,000
2 Postmasters-General	* **	* *			• •				27,000
3		**						9.4	24,000
The transfer of the state of Comment of the	210	9.6	**	• •				• •	21,000
1 Director, Geological Survey of 1	nous	f To ale	Can Alba	. Éine		Sant.	- ° 5-		24,000
Deputy Secretaries to the Govern	imeut o	i man	12 12	2 E 103	ruca wut	r corei	go ve	part-	07 000
ments Deputy Secretaries to the Governments	mmant	of Tad	in in i	ho Ta	witelette		Home	Tie.	27,000
partments					STATISTICS &		From	יייער	24,000
Superintendent of Port Blair					•••	**		ດ ດັດດ	to 38,000
1 Chief Commissioner of Delhi						**		4.	28,001
1 Director, Criminal Intelligence								**	26,000
1 Deputy Director, Criminal Inte-	ligence				4.4	**	1	8,000	to 24.000
Inspector-General of Forests				• •					31,800
Surveyor-General, Survey of India				••					36,000
1 Chief Inspector of Mines in Indi	a		4.6			* *	2	1,000	to 24,200
1 Director-General, Indian Medica	i Servic	e							28,000
1 Sanitary Commissioner with the	Govern	ment o	f Indle	١			1	4,000	to 30,000
1 Director-General of Archæology	in Indi	1							20,403
1 Administrator-General of Benza			**			**		4.0	24,000
1 Director-General of Commercial							4.	**	24,000
Controller of Stationery and Printl	reatone	5	* *	* *		4.4	1	5,000 1	5 24,000
Controller of Stationery and Printi	ng	* *	a a		• •	• •	10		0 27,000
Governors of Madras, Bombay, an	d Benga	1		4.0	4.5				1,20,000
Private Secretaries to Governors of					ıgal				18,000
Surgeons to Covernors of Madras,	Bombay	, and l	Bengal	• •		** .	••		12,000
Military Secretary and Alde-de-Car	mp to U	01.010	12 Of 71	adras,	, Rombi	r, and	Rent	ll	12,000
Bishop of Calcutta	**		4.0	* *	• •	• •		**	45,977
Bishop of Madras Bishop of Bombay	• •	• •	• •	• •	• •		. 4	**	25,600 25,600
Chief Justice of Bengal			* *	**	• •	••	• •	••	72,000
			**				••	••	•
Chief Justices of Madras, Bombay,	and the	North	-West	m ru	princes	** (**		422	60,000
Pulme Judges of the High Couris	of Calc	itta (L	oj, siac	1133 (6	ı, vom	mr. (0)			£2 000
North-Western Provinces (6)	n fa h	• •	• •	••	* *		• •	• •	48,000
Chief Judge of the Chief Court, Pu	erteri m	**	••	••	• •	• •	**	• •	49,000 43,000
Judges of the Chief Court, Punjab	(4), and	Burms	(11). M	cent	Chief Ir	dzes		• •	12,000
6 Political Residents, Ist class	falt pur	During	40	ecche.	**		• •	••	43,000
g End class	• •	••	••	••	**		• •		33,000
Political Officers on time scale	.,		**	• •	***			400 to	28,500

Provincial Salaries.

N.B.—Acting and other allowances are not in	cluded in ti	ic salaties sh	מחס.
		•	Pay per Annum. Rs.
Bengal.		,	
Members of Council			64,000
Member of the Board of Revenue	* * * * * * * * * * * * * * * * * * * *	**	45,000
Chlor Secretary to Government	• • • • •	** *	35,000 45,000
. Chief Secretary to Government	** **	** **	
3 Secretaries to Government 3 Under Secretaries to Government	**		10 000
L Excise Commissioner	** **	** *	01.000
L Chairman of Corporation of Calcutta		•• •	20,000
I Deputy ditto			10 000 to 18 000
1 Collector of Customs, Calcutta	••	••	30,000
2 Magistrates and Collectors, 1st grade	**		27,000
	••	** *	
7 Joint Magistrates and Deputy Collectors, 1st grade		** 1	18,000
	• • • •	** *	R 400
-Assistant Magistrates and Collectors	•• ••	• • •	4,800 to 6,000
3 District and Sessions Judges, 1st grade		••	26,000
13 ii ii 2nd ii			30,000
1 Chief Judge; Presidency Courts of Small Causes	** **		24,000
A Tudana			24,000 to 30,000 12,000, 13,500
11 11 11	:.	}	15,600 and 16,800
1 Advocate General 1 Solicitor to Government			48,000
	**	** -	
1 Registrar, High Court 1 Inspector-General of Police			20,400
1 Director of Public Instruction			04,000 4- 00,000
1 Private Secretary to H. E. The Governor .		•• •	10,000
1 Director of Agriculture			27.000
1 Director of Land Record			18,000
1 Secretary of the Board of Revenue	**	• • •	18,000
Bihar and Oris	sa,		
1 Lieutenant Governor			1,00,000
3 Members of the Executive Council	••		60,000
1 Member of the Board of Revenue			42,000
1 Chief Secretary to Government			86,000
2 Secretaries to Government			27,000
3 Under Secretaries to Government			12,000
5 Commissioners			35,000
10 Magistrates and Collectors, 1st grade			27,000
11 ;; 2nd ;;			21,600
12 ii	•• • •	•••	18,000
11 Joint Magistrates and Deputy Collectors, 1st grade	0		10,800 8,400
10 ;; ;; 2nd ;,	• • •		
-Assistant Magistrates and Collectors 2 District and Sessions Judges, 1st grade	••		4,800 to 6,000 36,000
	••		60 000,
5 ;; ii 2nd ;;			24,000
**			17 980
1 Commissioner of Excise and Salt 1 Director of Land Records and Surveys			21,600
1 Director of Agriculture			18,000
1 Inspector-General of Police			. 30,000 to 30,000
1 Director of Public Instruction	••		24,000
			,

Pay per Annum, Rs,

					Assni	m.						•
1 C	hief Commiss	IODAT										****
	ommissioners		• •	• •	••	••	• •	• •	**	• •	••	56,000 33,000
	ecretaries to	Chief Com	missio	ner	•••	• • • • • • • • • • • • • • • • • • • •	•••	• •	••	1	8,000 and	1 21,600
	eputy Comm								• •	• •	0.0	27,000
7	ii	:	2nd	1	• •		• •					21,600
7	**	11	3rd	;;	••	••	••			••	• • • • • • • • • • • • • • • • • • • •	18,000
	esistant	**	lat	**			• •		• •	••		10,800
4	11	11	2nd 3rd	37		• •	4 9	••	• •	• •	- 400	8,400
	ii	11 -1 4 - 671-1		27	••	• •	• •	• •	• •	• •	5,400 -	~ 6,000
	Inder Secretar				ner	**	• •	• •	• •	• •	• •	12,000
	District and Sinspector-Gen			• •	• •	* *	* *	• •	• •	• •	••	30,000
	irector of Pu			• •	* *	• •	• •	••	• •		15,000 to	27,000
1 1	Director of La	nd Record		Agricu	Iture	• • •	• • •	••		•••	**	18,000
1 F	Excise Commi	esioner						• •	• •		• •	18,000
												· .
		1	Unite	i Prov	inces	of Agi	ra and	Oudb.	,			
. 1 I	Jeutenant Go	TOTTO			• •						4	1.00.000
îĉ	Thief Secretar	to Gover		t	••	•••	* *		• •	**	** 1	1,00,000 36,000
	lembers of th				* *	4.4						42,000
2 8	ecretaries to	Governme	nt			4 0				2	0,000 and	1 22,000
1 8	secretary to B	oard of R	evenu	D			* *					22,000
	Inder Secreta			ent	• •		* *				**	12,000
9 0	ommissioners	of Division	BEE									35,000
	ommissioner	tor Kuma	on	**	* *			• •		** 0	0 000 4	30,000
10 3	Opium Agent Uagistrates ar	d Collecte	10 10	t amd	a • •	• •	• •		* *		0,000 to	88,000
	HREISTINGS OF	id Concore				• •		• •	• •	* *	• •	27,000
17 4 T	amuli camm	Irelanere	2n	id ji		* *		• •	• •		0.6	22,000
10	Deputy Comm		2nd	iue:		* *			• •	* *	** '	22,000 20,000
	Joint Magistra	tes, 1st gr	ade	,			• • •		• •	• • •	**	12,000
	Assistant Com			rade	• •	**				,	**	9,600
21 J	Toint Magistra	tes and A	esistar	t Com	nission	nera, 2nd	i grade					8,400
-A:	ssistant	99		99	• •						4,800 to	6.000
	Deputy Comm					* *		• •	12,		2,000 and	d18,000
1 0	City Magistrat Superintenden	t Debra I	W	•••	• •	**	• •	• •		**	4.4	12,000 18,000
	-			•••	••	••	•	••	• •	• •	• *	
	Judicial Comn Additional Ju		missio	more	• •	**	**	• •		• •	**	42,000 40,000
	District and S				ado	•••	• •	• •				36,000
7	**					• •						80,000
7	***	99		0-4	,	• • •		** .	• •	::•	* *	27,000
10	ij	**		4th	;;	4.0	**	**	**		• •	22,000
5	;;	99		EAR .	,	• •		* *	• •	• •	• •	20,000
1 1	Registrar, Hig	h Court		• •					• •			19,200
1 1	Inspector-Gen	eral of Pol	ice	• •			• •			3	0,000 to	36,000
1 1	Director of Pu	iduc tustr	action	• •	. * *		• •	• •			• •	24,000
					_							
					Pu	njab.					,	_
	Licutenant Go		••								1	,00,000
1 (Chief Secretar	y to Gove	rnmen	t				• •	••		** ,	36,000
	Secretaries to			• •			• •			18,	bna 000,	21,600
2 1	Under Secreta	ries to Go	vernm	ent	4.4	• •	**	**	• •		** 1	12,000
1 7	Under Secreta	ry, Police	Depar	tment.	and I	aspector	-Genera	l of Po	lice	••		30,000
1 7	Under Secreta	ry, Educa	tional	Depart	ment	·		**	• •		**	24,000
2 3	Financial Com	missioner	3	••							• *•	42,000
2 !	Secretaries to	Financial		issionei		••		**			0,800 and	8,400
5	Commissioner	5	* *		• •		-:*	• •	• •	••		33,000

· ·			Punj	n11(0)	nid.		•	,		ny per nnum. Rs.
14]	Deputy Commissioners, 1st-	grade					4.			27,000.
14	. 9nd	ginuo		• • • • • • • • • • • • • • • • • • • •						21,000
14	3rd	12	• • • • • • • • • • • • • • • • • • • •			• •	••			18,000
	Assistant Commissioners, 1st	grade								10,800
		_							•	8,400
14 89	37	4 ''	**		• •	• •	**			6,000
2	Divisional Judges, 1st grad					•••	**			33,000
4	;; ,, 2nd ,,	•	• • •		,	• •				30,000
							• -			27,000
6	;; 3rd ;; 4th ;;		• •	* *	* *	* *	• •			21,600
10 10	District Judges	**		**	• •	• •	• •	** **		18,000
-1	Sub-Judge and Judge, Smal	l Cause	Court,	Simla		• •	• •			15,000
	-		•		• • •	••	• •	• * *		15,000
1	Registrar of the Chief Court		4.4			* *	• •	**		24,000
i	Legal Remembrancer Inspector-General of Police	• • •	4.5		* *	• •				24,000
i	Director of Public Instruction	00	* *	* *			• •	••		24,000
	,,	vu .,	* *	* *	• •	• •	* *	**	•	21,00
37	*	,	Bui	rma.						
7 1	Lieutenant Governor				•					1,00,000
. 1	Chief Secretary to Governm	ont	* *	• •	* *	* *	• •		*	36,000
ៈ ត្	Secretaries	сис	* *	* *	* *		• •		, .	21,600
2	Under Secretaries	• •	* *	4.*	• •	• •				6,000
. ī	Assistant Secretary		* *		• •	• •	••			6,000
1.		••		• •	• •	• •	••	• • • • • • • • • • • • • • • • • • • •		
1	Financial Commissioner	3 70				* *	4.4	** **		42,000 33,000
î		in Ditec		and Re		4.4	4.4	**		10,200
ī	Deputy Director of Land B Secretary to Financial Com	mimione.	. * *	**	* *	4.4	• •	**		12,000
ī	Director of Agriculture	шьмощо		**	**	• •	4.4			21,600
					• • •		••	••		
- 8	Commissioners of Divisions Deputy Commissioners, 1st	op do		8.9	* *		* *	**		33,000
12 14	- One		• •		* *	• •	• •	**		27,000 21,000
15	3rd				* *	• •	* *			18,000
12						• • • • • • • • • • • • • • • • • • • •				12,000
13	_	A					- •			
10		a' "	**				• •			8,400 7,200
52					**		• • •	5,40	0 to	6,000
ī	Judicial Commissioner .	. ,,	4.4				4.4			42,000 -
ē		ide	• •		es					83,000
1				. "						30,000
Ď	and the state of	,				••				27,000
. 2	n ard	13 **	• • •							21,600
ġ	District	,				* 4	• •	., .,		18,000
ĭ	Registrar, Chief Court, Low	or Burn	10	4.4						8,400
' i			4.4					18,00	O to	21,600
				Dunni						
	* * * * * *		entral	Provi	iices.		•			
. 1	Chief Commissioner .									62,000
·i			• • • • • • • • • • • • • • • • • • • •	• •	• • •	• •		;,		42,000 83,000
ŝ				• •	• • •	**	• •			83,000
13	Deputy Commissioners, 1st									27,000
13										21,600
14	77	1		• • •	••					18,000
. 10						• •				10,800
ì		d ,				• •		., ,,		8,400
, _	. :: :: 8rd	a						4,800) to	
. 1		1 ;;		• • •	• • •	• •	• •	4,000		42,000
៍ ខ្ចុំ	Additional Judicial Commis	slopers	**		•••	- : : :	• •			80,000
4	Divisional and Sessions Jud	iges .				••	• •	14,80) to	18,240
2		_						14 900	and	20.400
î				· 21 ·	** .	-	• •	9700) to	33 000
	Director of Public Instructi	on			4	::	**	18,000	to	24,000
_									-	
	•	٠.								

		Ma	dras.			,		1	Pay per Annum, Rs.
2 Members of Council	• •	• •	••			••		• •	61,000
I First Member, Board of Revent	10	• •	• •				• • •		45,000
1 Second Member		• •	• •	••	• •	***	* *	* *	42,000 30,000
I Fourth Homber		••	• •	••	• •	,,	• • •	• •	30,000
1 Chief Secretary to Government		••	•••	• • • • • • • • • • • • • • • • • • • •		••	**		45,000
1 Revenue Secretary to Government	ent		••			• •			30,000
1 Secretary to Covernment 1 Private Secretary to Governor	• •	• •	• •	• •			* *	• •	30,000 18,000
1 Private Secretary to Governor 2 Under Secretaries to Government	nt	• •	* *	• •	• •	••	• •	• •	12,000
• • • • • • • • • • • • • • • • • • •		30-0-	**	• •	**			000	
1 Secretary to Commissioners of 1 1 Secretary to the Commissioners	of Sal	ituver	iues .	7.0	• •				ta 21.600
22 District and Sessions Judges	••	.,		**	• • • • • • • • • • • • • • • • • • • •		24	000	to 36,000
· 1 Registrar, High Court					• •		18	,000	to 21,000
1 Advocate General				• •	• •	• •		• •	21,600 13,200
1 Government Solicitor 1 Chief Judge, Small Cause Couri		* *	**	• •	**	**	• •	* *	24,000
1 Commissioner of Coorg		**		• •	• • •	• • •	21	600	to 24,000
1 Resident in Travancore and Co	chin		• •	• •	• •				33,600
1 Inspector-General of Police				• •	• •	* *	30,	000 1	to 36,000
9 Collectors, 1st grade	• •				• •	• •		4.4	30,000
14 2nd 2nd	••	* *	* *	• •	• •	• •	• •	• •	27,000
1 President, Corporation of Madr 6 Collectors, 3rd grade	as .	6'6	• •	• •		••		••	20,820 21,600
7 Sub-Collectors and Joint Magis	trates.	15t	grade	• • •	**	- ;;			14,400
16	,	2nd	"		* *	**	* *		10,800
10 " " " " " " " " " " " " " " " " " " "	92.4.00	3rd	27			4.4	** 4	800	8,400 to 6,000
 Assistant Collectors and Magist Director of Public Instruction 	nucs		• •	• •	• • •		24		to 30,000
1 Director of Paone Mariaceion	••	•••	• •	* *	* *	,.		000	
•		Bo	mbay.						á
3 Members of Council	• •	• •	• •	* *	**	**	• •	• •	54,000 45,000
1 Chief Secretary to Government 1 Secretary to Government			• •	• •	• •		• •	4.0	45,000 37,500
1	• • •				~ 11			• •	30,000
1 Private Secretary to Governor									18,000
2 Under Secretaries to Governme	nt	* *	**		* *		**	# 4	15,000
1 Inspector-General of Prisons				4.4			21,	600 f	0 24,000
1 Inspector-General of Police	• •	• •	* *	* *			30,	000 (o 36,000 ad 42,000
1 Commissioners of Divisions 1 Commissioner in Sind	• •	• •	• •	• •	• •		**		45,000
1 Municipal Commissioner, Bom	bay		• •		• •		• •	**	36,000
13 Senior Collectors	• •	* *			**		* *		27,000
15 Junior ;;									21,600
9 Assistant Collectors, 1st grade				• •	**	4.5		**	14,400
10 " ged "	• •	**	* *	* *	**		• •	•••	10,800 8,400
- 11 4th 11		• •		••			. 9 4,	800 E	6,000
1 Collector in Sind			**		**	**			21,600
1 Assistant Commissioner in Sine	1					4.5		.,	13,200
1 Judicial Commissioner in Sind		or "		• •	• •			* *	42,000
2 Additional Judicial Commissio 3 District and Sessions Judges—	ner in	bind	• •		• •			••	30,000
	and gr	ade	••	• •	• • • • • • • • • • • • • • • • • • • •	••	• •	• •	30,000 27,900
	Brd	29 -	•••	••			• •	• •	21,600
1 Prothonotary and Registrar, H	ligh Co	mrt.		••	• •		20,	1 001	0 24,000
1 Administrator General and Off	icial T	ruste		• • •	• • •		24,0	000 t	0 80,000
1 Registrar, High Court 1 Chief Judge, Small Cause Cour			• •	• •	- * *		**.		20,400
1 Chief Judge, Small Cause Cour 1 Remembrancer of Legal Affair		• •	• •	• •	• •	• •			24,000
1 Government Solicitor	3	•••	••	• •		• •	** .	••	30,000 30,000
1 Advocate General									-
1 Agent to the Governor in Katl	ilawar	• •	• • •	••				**.	24,000 36,000
1 Resident and Senior Political	Agent -			•••		- 4			97 000
27 Political Officers on time scale	of pay			• •	5,400	to 10,2	00 & 11,	100 t	0 23,400
1 Director of Public Instruction	• •	••	••	••	••	. **	., 24,0	1919 t	0 30,000

Indian Orders

The Star of India.

The Order of the Star of India was instituted by Queen Victoria in 1861, and enlarged in 1866, 1876, 1897, 1902, and 1911, and the dignity of Knight Grand Commander may be conferred on Princes or Chiefs of India, or upon British subjects for important and loyal service rendered to the Indian Empire; the second and third classes for services in the Indian Empire of not less than for services in the Indian Empire of not less than thirty years in the department of the Secretary of State for India. It consists of the Severeign, a Grand Master (the Viceroy of India), the first class of forty-four Knights Grand Commanders (22 British and 22 Indian), the second class of one hundred Knights Commanders, and the third class of two hundred Companions, exclusive of Extra and Honorary Members, as well as certain additional Knights and Companions.

The Insignia are (i) the Collar of gold, com-posed of the lotus of India, of palm branches tied together in satire, of the united red and white rose, and in the centre an Imperial Crown : all enamelied in their proper colours and linked together by gold chains. (ii) The Star of a Knight Grand Commander is composed of rays of gold issuing from a centre, having thereon a star of five points in diamonds resting upon a light blue enamelled circular riband, tied at the ends and inscribed with the motto of the Order. ends and inscribed with the motto of the Order, Hearen's Light our Guide, also in dlamonds. That of a Knight Commander is somewhat different, and is described below. (iii) The Badge, an onyx cameo having Her Majesty Queen Victoria's Royal Edigy thereon, set in a performed and ornamental oval, containing the motto of the Order surmounted by a star of five points, all in diamonds. (iv) The Mantie of light blue satin lined with white, and fastened with a cordon of white silk with blue and silver tassels. On the left side a representation of the tassels. On the left side a representation of the Star of the Order.

The ribbon of the Order (four inches wide for Knights Grand Commanders) is sky-blue, having a narrow white stripe towards either edge, and is worn from the right shoulder to the left side. A Knight Commander wears (a) around his neck a ribbon two inches in width, of the same colours and pattern as a Keight Grand Commander, and pendent therefrom a badge of a smaller size, (b) on his left breast a Star composed of rays of silver issuing from a gold centre, having thereon a silver star of five points resting upon a light blue enamelied circular ribbon, tied at the ends, inserticed with the motto of the Order in diamonds. A Companion wears from his left breast a hadge of the same form as appointed for a Enight Commander, but of a smaller size pendent to a like ribbon of the breadth of one and a half inches. All Insignia are returnable at death to the Central Chancery, or if the recipient was resident in India, to the Secretary of the Order at Calcutta.

Sovereign of the Order:- H. I. M. The

Grand Master of the Order:—His Excell Lebbridge lency the Vicercy and Governor-General of H. H. Maliarao of Bundl ludis, the Right Honourable Baron Chelmsford. Sir William Mackworth Young

Honorary Knights Grand Commanders (G. C. S. I.)

The Zil-es-Sultan of Persia Prince Louis d'Arenberg

Extra Knights Grand Commanders (G. C. S. L)

H. M. the Queen Empress H. R. H. The Duke of Connaught

Knights Grand Commanders (G. C. S. L.)

H. H. the Gackwar of Baroda H. H. the Maharana of Udaipur

H. H. the Maharajah of Jaipur H. H. the Maharaja of Travancore

The Marquis of Lansdowne Baron Reay

H. II. the Maharaja of Jammu and Kashmir The Earl of Elgin

H. H. the Maharaja of Kohlapur H. H. the Maharaja of Gwallor

Lord Harris H. H. the Maharaja of Rewa H. H. the Maharaja of Jodhpur

Baron Macdonnell

Earl Curzon of Keddleston Baron Sandhurst

Lord George Hamilton H. IL the Raja of Cochin Baron Ampthili

Maharaja Sir Chandra Shamsher Jung of Nepal H. H. the Maharaja of Orchba

II. H. the Maharaja of Mysore Baron Hardinge of Penshurst

H. H. the Begum of Bhopal Sir Steuart Bayley

Sir Dennis Fitz-Patrick

Sir Dighton Probyn Baron Sydenham

Sir Arthur Lawley Sir John Hewett H. H. the Maharaja of Bikaner

H. H. Maha Rao of Kotah General Sir O'Moore Creagh General Sir Beauchamp Duff General Sir Edmund George Barrow

H. H. the Raja of Kapurthaia H. H. the Nizam of Hyderabad H. H. the Aga Khan H. H. the Nawab of Tonk.

Knights Commanders (K. C. S. I.)

Sir Joseph West Ridgeway Sir William Chichele Plowden

Sir David Miller Barbour

Sir Phillip Perceval Hutchins Sir Henry Edward Stokes Sir Henry Mortimer Durand Maj.-Gen. Sir Oliver Richardson Newmarch Sir Frederick William Richards Fryer

H. H. Mahamo of Strohl

Sir Courtenay Peregrine libert Surg.-Lieut,-Col, Sir Alfred Swalne

ucas White King ir Mackenzie Dalzeli Chalmers argn.-Gen. David Sinclair Henry Farrington Evans Lt.-Col. John Mult Hunter Mohard Gillies Hardy Mr Frederick Robert Upcott Herbert Charles Fanshawe Sir Frederick Styles Philpin Lely George Robert Irwin Lleut.-Gen, Sir George Lloyd Relliy Richardson Robert Burton Buckley Arthur Frederick Cox Charles Gerwien Bayno Hartley Kennedy Bir Edwin Grant-Buris Major-Gen. Trevor Bruce Tyler William Charles Mappherson Lt.-Col. James Alexander Lawrence Montgomery Lt.-Gen. Henry Doveton Hutchinson Raja of Burdwan Nawab of Pahasu Sardar Badan Singh of Malaudh Sir Thomas Gordon Walker Col. James White Thurburn Alfred Brereton Altrea Breroton

William Thomas Hall
Richard Townsend Greer
Col. Robert Henry Jennings
Eir Louis William Dane
Sit Alfred Macdonald Bulteel Irwin
Col. James Bird Hutchlason
Raja Ram Pai of Kotlehr
Hermann Michael Kisch
Sit Coeil Michael Wilcon
Richt Hermann Michael Risch Sir Cecil Michael Wilford Brett Herbert Bradley Sir Frank Campbell Gates John Mitchell Holms Percy Seymour Vessey Fitzgerald Lt.-Col. Willoughby Pitcairn Kennedy Raja Narendra Chand Arthur Delaval Younghusband Oscar Theodore Barrow Col. Howard Goad Francis Alexander Slacke Saiyid Husain Bilgrami Percy Comyn Lyon Algernon Robert Sutherland Sir George Watson Shaw William Arbuthnot Inglis Romer Edward Younghusband Major-General Herbert Mullaly John Alexander Broun Col. Henry Finals

Col. Henry Finals

Maj.-Gen. Sir Alfred William Lambart Bayly
Maurice Walter Fox-Strangways

William Lochiel Sapte Lovett Cameron Sir Edward Douglas Maclagan Raja Madho Lal John Stratheden Campbell Licut. Col. Charles Herbert Sir Ashutosh Mukharil Maj. Gen. Sir Henry Montague Pakington Hawkes Dr. Sir Rash Rehari Ghosh Francis Capel Harrison

Condr. Sir Hamilton Pym Freer-Smith
Andrew Edmond Castlestuart Stuart
Norman Goodford Cholmeley
Walter Francis Rice Havilland Le Mesurler
Ceell Edward Francis Bunbury
Major General Reginald Henry Malion

Capt, Allen Thomas Hunt

Walter Badock James Mollison Pirajirao Bapu Sahib Ghatgo John Walter Hose Charles Ernest Vent Goument Herbert Lovely Eales Frederick Beadon Bryant Frank George Sly George Moss Harriott Ernest Herbert Cooper Walsh Sir Edward Vere Levinge Robert Nathan Lieut.-Col. Charles Archer James Peter Orr Herbert Alexander Casson William Axel Herts Sir Mahadev Bhaskar Chaubal George Soymour Curtis Brevet-Lieut.-Colonel Francis Aylmer Maxwell Brevet-Lieut,-Colonel Clive Wigram Herbert Thompson Rao Bahadur Nanak Chand Surgeon-General William Burney Bannerman Lieut.-Col. Sir John Ramsay Stuart Lockwood Maddox Gilbert Thomas Walker Lleut.-Col. Phillip Richard Thombagh Gurdon Khan Zulfikar Ali Khan of Maler Kotla Surgeon-General George Francis Angelo Harris Edmund Vivian Gabriel John Stuart Donald Henry Montague Segundo Mathews Arthur Crommelin Hankin Faridoonji Jamshedji Maulvi Ahmad Hussain Horace Charles Mules H. H. Haja Bije Chand; Chief of Kahlur Lieut.-Col. Arthur Russell Aldridge Lieut.-Col. Mathew Richard Henry Wilson John Charles Burnham Col. Thomas Francis Bruce Renny-Tallyour, Michael Kennedy Thakor Karapsinghii Vajirajii Col. Alain Chartler de Lotbiniere Joly Lotbiniere Major-General Sir Herbert Vaughan Cox Brev.-Col. Robert Smelton Maclagan Lieut. Col. Charles Mowbray Dallas Edward Henry Sesmander Clarke Sir Jagadish Chandra Bose Abbas All Balg Oswald Campbell Lees Lt.-Col. G. G. Giffard F. W. Johnston William Henry Lucas A. L. Saunders Vakhatringhji Kearisinghji Paul Gregory Melitus Lieut.-Col. Albert Edward Woods William Exall Tempest Bennett Hon. Maj. Nawabzada Obaidulish Khan William Ogilvie Horne William Harrison Moreland, C.I.E.
Diwan Bhdr. Chaube Raghunath Das, of Kotah
Col. Lestock Hamilton Reid
Surg.-Gen. Henry Wickham Stevenson Hon. Lieut.-Col. Baja of Lambagmon Lionel Davidson George Carmichnel Lieut.-Col. Donald John Campbell MacNabb Lleut.-Col. Henry Walter George Colo Stuart Mitford Frager Henry Venu Cobb

The Aga Khan The Maharaja of Travancore Lord Lamington The Begam of Bhopal Bir Edmond Elles The Nawab of Janjira Sir Walter Laurence Sir Arthur Lawley The Malaraja of Bikaner The Maha Rao of Kotah Lord Sydenham The Nawah of Rampur Maharaj Sir Kishen Parshad Lord Hardingo Lord Carmichael Maharaja of Kashmir Sir Louis Dane Maharaja of Bobbill Lord Stamfordham Sir Guy Fleetwood Wilson Sir John Jordan Sir John Jordan
The Maharana of Udalpur
The Maharana of Patlaia
The Mai of Khalrpur
The Raja of Cochin
Lord Pentland
The Raja of Pudakottai
Lord Willingdon
Maharana of Kochanur Maharaja of Kolhapur The Yuvaraja of Myrore Sir Charles Stuart Bayley Maharaja of Darbhanga H. H. the Maharaja of Jind

. Honorary Knights Commanders (K. C. I. E.)

Sir Leon E. Clement-Thomas H. E. Shalkh Sir Khazal Khan, Shalkh of Mohammerah and Dependencies Dr. Sven Hedin The Sultan of Shehr and Mokalia Prince Ismali Murza, Amir-i-Akram Cavallere Filippo De'Filippi General Sir Bhim Shum-Shere Jung Bahadur, Rana of Nepal

Knights Commanders (R. C. I. E.)

* Blr Alexander Meadows Rendel Sir George Christopher Molesworth Birdwood Sir Affect of the Sir Affect of the Sir Affect James Leppoc Cappel Sir Donald Mackenzie Wallace Sir Affect Woolley Croft Bir Bradford Leslie Sir Arthur Baron Carnock Sir Gulldford Molesworth Sir Frederick Russell Hogg Sir Henry Mortimer Durand Sir Arthur George Macpherson Sir Henry Stuart Cunningham Raja of Lunawara Sir Roper Lethbridge Sir Edward Charles Kayll Ollivant Sir Henry Hoyle Howorth Sir Henry Seymour King Baron Incheape Col. Sir Henry Revenshaw Thuillier Sir Wm. B. Brooke Sir Mm, R. Brooke Maharaja of Gidhaur Lieut.-Col, Sir Adelbert Cecil Talbot II. H. Maharaja of Ajalgarh Sir Henry William Bliss Nawab of Loham Sir John Jardine

Rear-Admiral Sir John Hext Sir Col. Sir Angles wingato Roja Sir Harnam Singh, Ahluwalia Sir S. Subramaniya Aiyar Sir Alexander Cumingham Sir Henry Evan Murchison James Nawab Sir Shahbaz Khan, Bugti of Baluchi-Sir James George Scott Sir Lawrence Hugh Jenkins Sir Herbert Thirkell White Surg.-Gen. Sie Beglamin Franklin Sir Frederick Augustus Nicholson Sir Arthur Upton Fanshawe Raja Dhiraj of Shahpura Sir Gangadhar Rao Ganceh, Chief of Miraj (Seplor Branch) Brevet-Col. Sir Buchanan Scott Col. Sir John Walter Ottley H. H. Raja of Sailana Lleut-Col. Sir Francis Edward Younghusband Major-General Sir James R. L. Macdonald Sri Sir Ugyen Wangchuk, Tongsa Penlop of Bhutan Sir Fredric Styles Philpin Lely Lt.-Col. Sir Arthur Henry McMahon Gen. Sir Donald James Sim McLeod Maharaja of Balrampur Sir Francis Whitmore Smith Namab of Pahasu Sawab of rausu
Sir Thomas Gordon Walker
Sir Arthur Naylor Wollaston
Sir Thomas Henry Holland
Nawab of Hyderabad
Lieut.-Col. Sir George Olaf Roos-Keppel
H. H. Maharajadhiraja of Kishangarh Raja of Mahmudabad Sir Trevredyn Rashleigh Wynne Sir Richard Morris Dane Maharajadhiraja of Burdwan Raja of Poonch Prince Ghulam Muhammad All, Khan Bahadur Sir William Stevenson Meyer Sir Wilhelm Schlich Sir Theodore Morison Lleut.-Gen. Sir Robert Irvin Scallon Sir John David Rece Rear-Admiral Sir Edmond John Warre Slade Sir John Benton Sir Frederick William Dake Sir Archdale Earle Sir Charles Stewart-Wilson Lieut.-Gen. Sir Malcolm Henry Stanley Grover Sir Charles Raitt Cleveland Lleut.-Gen, Sir Douglas Haig Lieut.-Col, Sir Hugh Daly Sir Henry Parsail Burt Sir James Houssemayne DuBoulay Sir Rajendra Nath Mukharji Lieut.-Col. Sir Henry Beautoy Thornhill Sir Gangadhar Madho Chitnavis R. H. Nawab of Jaora State R. H. Raja of Sitamau State Raj Sahib Sir Amarsinhil Banesinhil (Vankaner) Sir Ram Krishna Gopal Bhandarkar Sir Michael Filose Rear-Adm. Sr. Colin Richard Keppel Sir John Stanley Sir Saint-Hill Eardley-Wilmot Lieut-Col. Sir Percy Zacharlah Cor Sir Francis Edward Spring Maharaja Sri Sir Viekrama Deo

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· 602 Sir William Earnshaw Cooper Maharaj Rajashri Sankara Subbaiyar Khan Bahadur Naoroji Pestonji Vakli Col. Russell Richard Pulford Col. Algernon George Arnold Durand Gen. Sir Beauchamp Duff Col. Robert Alexander Wauhope Edwin Darlington J. Strachan Dr. Waldemar M. Haffkine Dr. Augustus Frederick Rudolf Hoernle Rustamji Dhanjibhai Mehta Charles Godolphin William Hastings Khan Bahadur Mancherji Rustamji Dholu Col. John Charles F. Gordon Oharles Stewart Crole
Sir Benjamin Robertson
Duncan James Macpherson
John Campbell Arbuthnott
Sir Robert Warrand Carlyle Henry Cecil Fernal Robert Batson Joyner Charles George Palmer Lieut.-Col. Samuel John Thomson Lieut.-Col. Frederick Fitzgerald MacCartie Ral Bahadur Bir Bipin Krishna Bose P. C. H. Snow

Bony, Lieut-Col. Kunwar Bir Bikram Singh

Kajor A. B. Minchin
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McKenzie, Miss Allico Learmouth
Mead, Roy. Occil Silas
Mehto, Vaikuntral Lallubhai Mehte, Vaikuntral Lallubhal Mitcheson, Miss Mitra, Rajeswar Mitter, Mrs. Moens, Mrs. Agueso Swettenham Mohammed Khan Moitra, Akhoy Kumar Moore, Nursing Sister Dora Louisa Truslove Moore, Miss Eleanor Louis Morris, Major Robert Lee Motilal, Seth of Piparia Mount, Captain Alan Henry Moxon, Miss Iols Mozumdar, Jadu Nath Mudall, Valappakkam Dalvasigomoni Than davaroyan Mudaliar, Bangalore Perumal Annaswami Muhammad Yusuf, Shams-Ul-Ulama, Khan Bahadur Mukharji, Babu Jogendra Nath Mukharji Babu Nagendra Nath Muller, Miss Jenny Murll Dhar Murphy, Edwin Joseph Myat, Maung Htoon Nabi Baksh Nag, Mrs. Sasi Mukhi Naimuliah, Mohamed Naoum Abbo Napler, Alan Bertram

Singh, Makkhan Singh, Babu Ramdhari Singh, Sitta Bakah Singh, Sabadar Sher Singh, Bisaldar Major, Hanwant Smith, Miss Ellen Smith, The Rev. Frederick William Ambery Smith, Mrs. Heary Sommerville, The Rev. Dr. James Sir Ram Kunwar, Thakuraln Starte, Oliver Harold Baptist Steel, Alexander Steele, The Rev. John Perguson Stephens, John Hewitt Stephens, Mrs. Grace Stevens, Mrs. (Ethel) Stevenson, Surgeon-General Henry Wickham Stewart, Major Hugh Stewart, Mrs. Lilian Dorothea Stewart, Thomas St. Joseph, J. D. Strip, Samuel Algernon Stuart, Dr. (Miss) Gertrude Sultan Ahmed Khan Sunder Lal Sundrabai, Bai Surebhan Janji Swainson, Miss Florence Swiss, Miss Emily Constance Taleyarkhan, Mr. Manckshah Cawasha

Taleyarkhan, Mr. Manckshah Cawash Tasib Mehdi Khan, Malik Tambe, Dr. Gopal Rao Ramchandra Tarapurwalla, Fardunji Kuvarji Taylor, Rev. Alfred Prideaux Taylor, Mrs. Florence Prideaux Taylor, John Norman Tita, Maung Po Tha, Maung Shwe Thakur Pershad, Pundit Thein, Manne Po Theobald, Miss Thomas, Mrs. Mabel Pox Thomas, Samuel Gilbert Thompson, R. C. Thomson, Robert Douglas Thomsen, The Rev. G. Nichelas Thorn, Miss Bertha Thoy, Herbert Dominick Timothy, Samuel Tok, Maung Ba Tok, Maung Po Tomkins, Lionel Linton Tudball, Miss Emma Turner, Mrs. Vera Umar Khan, Malik Zorawar Khan Vale, Mrs. K. Vaughan-Stevens, Dudley Lewis Vljayaraghava Acharyar Visvesvaraya, Mokshagundam Walt, Robert William Hamilton Wakefield, George Edward Campbell Walewalker, P. Baburao Waller, Frederick Chighton Wanters, Dr. William James Wares, Donald Horne Webb-Ware, Mrs. Dorothy Weighell, Miss Anna Jane Weir, Henry Western, Miss Mary Priscilla Wildman, Miss Elizabeth Annic Wilson, Mrs. E. R. B. Wiseman, Honorary Captain Charles Sher

Woerner, Miss Lydis

Wood, The Rev. A.

Wyness, Mrs. Ada

Yerbury, Miss J.

Young, Dr. M. Y.

Zahur-ul-Husain, Muhammad

Indian Names and Titles.

There is a bewildering multiplicity of Indian | Deb-a Brahminical priestly title; taken from titler, made all the more difficult insamuch as there is a difference of nomenclature between the titles of Hindus and Mahomedans. Some titles are hereditary and represent roling chiefs or those nominally such (and of these there are no less than some 620, whilst of the titles themrelves some 200 are known); others are personal honours conferred on individuals by the Indian Government, and even then sometimes made hereditary. Yet again, there are numerous complimentary titles, or specifications of office, expressed in Hindu phrases, of which we have occasionally supplied the interpretations. It must be added that though carte is often figuring. in the names it has nothing whatever to do with the titles. Amir, Khan, Mir, Sultan, Srl, &c., are confudingly used as both titles and names.

The order of rank is thus given by Sir B. Lethbridge in "The Golden Book of India."

Hindu-Maharaja Bahadur, Maharaja, Bahadur, Raja, Rai Bahadur, Rai Saheb,

Nawab Bahadur. Mohammedan-Nizam. Nawab, Khan Babadur, Khan Saheb,

Pareis and Bene-Israelites-Khan Bahadur, Rhan Salieb.

After-a corruption of the English "officer."

Ahluwalia-name of a princely family resident at the village of Ahlu, near Labore.

Akhundzada-son of a Head Officer. Alijah (Sindhi)-of exalted rank.

Ali Raja-Sea King (Laccadives).

Amir (corruptly Emir)-a Mohammedan Chief often also a personal name.

Asaf-a Minister.

Baba—lit. "father;" Irish "Your Honour." a respectful "Mr.:"

Babu-strictly a 5th or still younger son of a Raja, but often used of any son younger than the helr, whilst it has also grown into a term of address-Eaguire. There are, however, one or two Rajas whose sons are known respectively as—its, Knuwar; 2nd, Diwan; 3rd, Thakur; 4th, Lal; 5th, Babu.

Bahadar—lif. "brave" or "warder:" a

title used by both Hindus and Mohammed-ans, often bestowed by Government; added to other titles it increases their honour, but alone it designates an inferior ruler.

Bakhshi-a revenue officer or magistrate. Begum or Begam-the feminine of "Nawah" combined in Bhopal as "Nawab Begum."

Besar-apparently a large land-owner.

Bhonelo-name of a Maratha dynasty.

Bhup-title of the ruler of Cooch Behar.

Bhurti-name of a Baluch tribe.

Chhatrapati-one of sufficient dignity to have an umbrella carried over him.

"grandfather" (paternal); any Dada-lit. venerable person.

Daula an Daulat-State; also one in office,

the name of a divinity.

Dhiraj-"Lord of the Lands:"added "Raja," &c., it means "paramount."

Diwan—a Vizier or other First Minister to a native Chief, either Hindu or Mohammedan, and equal in rank with "Sarder," under which see other equivalents. The term is also used of a Council of State.

Claya Raja-title given to the heir of the Maharain of Travancore.

Farcand (with defining words added)-"favo-

rito" or "beloved," Fatch-"victory,"

Path Jeang-" Victorious in Battle" (a title of the Nizam).

Gaekicar (cometimes Guicowar)-title with Mainraja" added of the ruler of Baroda. It was once a easte name and means "cowherd, i.e., the protector of the sacred animal; but later on, in common with "Holkar" and "Sindhia." It came to be a dynastic appellation and consequently regarded as a title. Thus, a Prince becomes "Gackwar" on succeeding to the estate of Barda; "Holkar," to that of Indore; and "Sindhia," to that of Gwallor.

Hoft:—guardian.

Hafi-one who has made pligrimage to Mecca.

Hiera Lal-"diamond ruby."

Holker-see "Gackwar."

Jah-a term denoting dignity.

Jam (Sindhl or Baluch)-Chief.

Kazi-(better written Qazi)--a Mohammedan magistrate.

Ehan-originally the ruler of a small Mohammedan State, now a nearly empty title though prized. It is very frequently used as a name, especially by Afghans and Pathans.

Khicaja-a Persian word for "master," sometimes a name.

Kungar or Kumar—the helr of a Raja.

Lal—a younger son of a Raja (strictly a 4th son, but see under "Babu").

Lokendra or Lokindra-g" Protector of the World," title of the Chless of Dholpur and

Mahant-a feudal title borne by the heads of a Hindu religious body.

Maharaja—the highest of hereditary rulers among the Hindus, or else a personal distinction conferred by Government. It has several variations as under "Raja," with the addition of Maharaj Rana; its feminine is Maharant (maha=great).

Malik-master, proprietor.

Mian—title of the son of a Rajput Nawab, resembling the Scottish "Master."

Mir-a leader, an interior title which, like "Khan," has grown into a name. It is especially used by descendants of the Chlefs of Bind.

Mirra-Il prefixed, "Mr." or "Esquire,"

Mong, Moung, or Maung (Arakanese)-leader. | Sindhia-see under "Gackwar." Moulti or Maulti-a learned man or teacher.

Mudaliyar or Mud-liar-a personal proper name, but implying " steward of the lands." Mumtaz-ud-Daula-distinguished in the State (Mult, in the country).

Munshi-president, or presiding official. Myowun-" Mr."

Nawab-originally a Viceroy under the Moghal Government, now the regular leading title of a Mohammedan Prince, corresponding to "Maharaja" of the Hindus.

lazim-a ruler (not to be confused with

· (ollowing).

Vizam-the title of the ruler of Hyderabad, the one Mohammedan Prince superior to Nawab. Yono (Thibetan)-the ruler of Spitta.

'andi or Pundi-a learned man.

Peshkup-manager or agent.

rince—term used in English courtesy for "Shahzada," but specially conformed in the case of "Prince of Arcot" (called also "Armin-I-Arcot ").

Raja—a Hindu Prince of exalted rank, but inferior to "Maharaja," The feminine is Rani (Princess or Queen), and it has the variations Raj, Rana, Rao, Rai, Rawal, Rawat, Raikwar, Raikbar, and Raikat. The form Rai is common in Bengal, Rao in S. & W. Indía.

Raj Rajeshwar-King of Kings.

Risaldar—commander of a troop of horses.

Saheb—the Native Hindu term used to or of a European ("Mr. Smith" would be mentioned as "Smith Saheb," and his wife "Smith Mem-Saheb," but in addressing it would be "Saheb," fem. "Saheba," without the name); occasionally appended to a title in the same way as "Bahadur," but inferior (-master). The unusual combination "Nawab Saheb implies a mixed population of Rindus and Mohammodans.

Sahibzada—son of a person of consequence.

Said, Sayid, Saiyid, Sidi, Syed, Syud—various forms for a title adopted by those who claim direct male descent from Mohammed's grandson Husain,

Sardar (corrupted to Sirdar)—a leading Gov-erament official, either civil or military, oven a Grand Vizier. Nearly all the Punjab Barons bear this title. It and "Diwan" are like in value and used by both Hindus and Mohammedans. So, but Mohammedans only, are "Wall," "Suitan," "Amir," "Mir," "Mir," "Mira," "Mira," and "Khan."

Sawai—a Hindu title implying a slight distinc-tion (lit. one-fourth better than others).

Saubwa (Burmese)-a Chief.

Shahzada—son of a King.

Shaikh or Sheikh (Arabic)-a Chief.

Shame-ul-Ulama-a Mohammedan title denoting "learned."

Shamshir-Jang-"Sword of Battle" (a title of the Maharaja of Travancore).

Sidi-a variation of "Said."

Sri or Shri—lit. fortune, beauty: a Sanscrit term used by Hindus in speaking of a person much respected (nover addressed to him; nearly—"Esquire"); used also of divinitier. The two forms of spelling are occasioned by the intermediate sound of the s (that of s in the German Stadt).

Subadar-Governor of a province.

Sultan—liko " Bardar."

Syed, Syud-more variations of "Said."

Talukdar—an Oudh landlord.

Talpur—the name of a dynasty in Sind.

Thakur-a Hindu term equivalent to "Baha-

dur," whether as affix or alone. Tumandar—a Persian word denoting some office

Umara—term implying the Nobles collectively. Walf-like "Sardar." The Governor of Kire.

lat is so termed, whilst the Chiefs of Cabulare both "Wali" and "Mr."

Zemindar or Zamindar—a landowner; orig. a Mohammedan collector of revenue.

Distinctive Distinctive Budges.—An announcement was made at the Coronation Durbar in 1911, that a distinctive badge should be granted to present holders and future recipients of the titles of 'Divan Bahadur', 'Sardar Bahadur', 'Kan Bahadur', 'Rai Bahadur', 'Rao Bahadur', 'Khan Bahib', Rai Sahib' and 'Rao Bahadur', 'Khan Sahib', Rai Sahib' and 'Rao Bahadur', 'Khan Sahib', Rai Sahib' and 'Rao Bahadur', 'Khan Sahib', Rai Sahib' and 'Rao Bahadur', 'Kanasana Raida Rai Salitb' Subsequently the following regula-tions in respect of these decorations were issued:—(1) The decoration to be worn by the holders of the titles above mentioned shall be a badge or medaillon bearing the King's effigy crowned and the name of the title, both to be executed on a plaque or shield surrounded by a five-pointed star surmounted by the Imperial Grown, the plaque or shield being of silver gilt for the titles of Diwan, Bardar, Khan, Rai and Rao Bahadur, and of allver for the titles of Khan, Rai, and Rao Sahib. (2) The badge shall be worn suspended round the neck by a ribbon of one inch and a half in width, which for the titles of Diwan and Sardar Bahadur shall be light blue with a dark blue border, for the titles of Khan, Rai and Rao Bahadur light red with a dark red border, and for the titles of Khan, Rai and Rao Sahlb dark blue with light blue border.

A Press Note issued in November, 1914, state:-The Government of India have recently had under consideration the question of the position in which miniatures of Indian titles should be worn, and have decided that they should be worn on the left breast fastened by a brooch, and not suspended round the neck by a ribbon as prescribed in the case of the When the miniatures are worn in Badgo itself. conjunction with other decorations, they should be placed immediately after the Kaiser-i-Hind Medal.

Indian Distinguished Service Modal.—This medal was instituted on June 28th, 1907, by an Army Order published in Simla as a reward for both commissioned and non-commissioned officers of the regular and other forces in India. It bears on the obverse the bust of King Edward. VII, and on the reverse a laurel wreath encircling the words For Distinguished Service. The

Indian Order of Merit,—This reward of valour was instituted by the H. E. L. Co. in 1837, to reward personal bravery without any reference to length of service or good conduct. It is divided into three classes and is awarded to native officers and men for distinguished conduct in the field. On the advancement from one class to another the star is surrendered to the Government, and the superior class substituted, but in the event of the death of the recipient bis relatives retain the decoration. The order carries with it an increase of one-third in the pay of the recipient, and in the event of his death the allowance is continued to his widow for three years. The First Class con-sists of a star of eight points, 1, in. in diameter. sists of a star of eight points, 1] in, in diameter, having in the centre a ground of dark blue enamel braring crossed swords in gold, within a gold circle, and the inscription Reward of Valour, the whole being surmounted by two wreaths of laurel in gold. The Second Class star is of silver, with the wreaths of laurel in gold; and the Third Class entirely of silver. The decoration is suspended from a simple loop and bar from a dark-blue ribbon 14 in. In width with red edges, bearing a gold or silver.

medal, 13 inches in diameter, is ordered to be two immediately to the right of all war medals radiated star 14 in. In diameter. The centre is suspended by a red ribbon 14 in. wide, with blue edges 4 in. wide. This medal may be conferred by the Viceroy of India. The First Class consists of a gold eight-pointed radiated star 11 in. In diameter. The centre is occupied by a lion statant gardant upon a ground of light-blue enamel, within a dark-blue band inscribed Order of British India, and encircled by two laurel wreaths of gold. A gold loop and ring are stached to the crown for auspension from a broad ornamental band ra in, in diameter, through which the ribbon, once blue, now red, is passed for suspension from the neck. The Second Class is 170 in. in diameter with dark-blue enamelled centre; there is no crown on this class, and the suspendiction of the contraction of the suspendiction of the class is not contraction. there is no crown on this class, and the suspender is formed of an ornamental gold loop. The reverse is plain in both classes. The First Class carries with it the title Siriar Bahadur, and an additional allowance of two rupees a day; and the Second the title of Bahadur, and an extra allowance of one rupee per day,

Indian Meritorious Service Medal.—This was instituted on July 27th, 1888, and on receipt of the medal the order states "a non-commissioned officer must surrender his Long Service and Good Conduct medal": but on being promoted to a commission he may retain the M. S. medal, but the annuity attached to it will cease. On the obverse is the diadomed bust of Queen Victoria facing left, with a veil falling over the crown behind, encircled by the legend Victoria Kalsar-i-Hind. On the reverse loop and bar from a dark-blue ribbon 14 in. In width with red edges, bearing a gold or silver buckle according to class.

Order of British India.—This order was instituted at the same time as the Order of Merit, to reward native commissioned officers for long and faithful service in the Indian Army. Since 1878, however, any person European or native, holding a commission in a native regiment, became eligible for admission to the Order without reference to creed or colour.

Laws and the Administration of Justice.

The indigenous law of India is personal and divisible with reference to the two great classes of the population, Hindu and Mahomedan. Both systems claim divine origin and are inextricably interworen with religion, and each exists in combination with a law based on custom. At first the tendency of the English was to make their law public and territorial, and on the establishment of the Supreme Court at Calcutta in 1773 and the advent of English control of the Supreme Court at Calcutta in 1773 and the advent of English them.

at Calcutta in 1773 and the advent of English lawyers as judges, they proceeded to apply it to Europeans and Indians alike. This error was rectified by the Declaratory Act of 1780, by which Farliament declared that as against Hindu the Hindu law and usage, and as is a Mahomedan the laws and customs of tham should be applied. The rules of the chastras and the Koran have been in some as altered and relaxed. Instances can be found in the Bengal Sati Regulation Act of 1889; the Indian Slavery Act 1843; the found in the Bengal Sall Regulation Act of 1829; the Indian Slavery Act, 1843; the Gaste Disabilities Removal Act of 1850; the Hindu Widows' Remarriage Act, 1856; and other Acts and Codes. To quote the Imperial Gazetteer, "A certain number of the older English statutes and the English common law are to a limited extent still in force in the Presidency Towns as applicable to Europeans, while much of the old Hindu and Mahomedan law is overwhere personal to their native while much of the old Hindu and Mahomedan law is everywhere personal to their native fellow subjects; but apart from these, and from the customary law, which is as far as possible recognised by the Courts, the law of British India is the creation of statutory enactments; unade for it either at Westminster or by the authorities in India to whom the necessary law-giving functions have from time to time been delegrated." delegated.

Codification.

Before the transfer of India to the Crown the law was in a state of great confusion. Sir Henry Cunningham described it as "hopelessly unwieldy, entangied and confusing." The first steps toward general codification were taken in 1833, when a Commission was appointed, of which Lord Macaulay was the moving spirit, to prepare a penal code. Twenty-two years clapsed before it became law, during which period it underwent revision from his successors in the Law Membership, and especially by Sir Barnes ePeacock, the last Chief Justice of the Supreme Court of Calcutta. The Penal Code, which became law in 1860, was followed in 1861 by a Code of Criminal Procedure. Substantially the whole criminal Law of British India is contained in these two Codes. One of the most eminent lawyers who Before the transfer of India to the Crown Codes. One of the most eminent lawyers who ever came to India, Sir James Stephen, said "The Indian penal code may be described as the criminal law of England freed from all technicalities and superfluities, systematically arranged and modified in some few particulars." arranged and moduled in some law particulars (they are surprisingly few) to suit the circumstances of British India. It is practically impossible to misunderstand the code." The rules of Civil Procedure have been embodied in the Code of Civil Procedure. The Indian Penal Code has from time to time been amended. The Code of Civil Procedure was remodelled

European British Subjects.

Whilst the substantive criminal law is the same for all classes, certain distinctions of pro-cedure have always been maintained in regard to criminal charges against European British subjects. Until 1872 European British subjects could only be tried or punished by one of the High Courts. It was then enacted that European British subjects should be liable to be tried for any offences by magistrates of the highest class, who were also justices of the peace, and by judges of the Sessions Courts; but it was necessary in both cases that the magistrate or judge should himself be a Europeau British subject. In 1883 the Government of India announced that they had decided "to settle the question of jurisdiction over European subjects in such a way as to remove from the subjects in such a way as to remove from the code at once and completely every judicial disqualification which is based merely on race distinctions." This decision, embodied in the libert Bill, aroused a storm of indignation which is still remembered. The controversy ended in a compromise which is thus summarised by Sir John Strachey ("India"). "The controversy ended with the virtual, though not avowed, abandonment of the measure proposed by the Government. Act III of 1884, by which the law previously in force was amended, cannot be said to have diminished the ded, cannot be said to have diminished the privileges of European British subjects charged with offences, and it left their position as ex-ceptional as before. The general disqualifica-tion of native judges and magistrates remains; but if a native of India be appointed to the post of district magistrate or sessions judge, his powers in regard to jurisdiction over European British subjects are the same as those of an Englishman bolding the same office. This provision however is subject to the condition that every European British subject brought for trial before the district magistrate or sessions. judge has the right, however trivial be the charge, to claim to be tried by a jury of which not less than half the number shall be Europeans or Americans.....Whilst this change was made in the powers of district magistrates, the law in regard to other magistrates remained unaltered." Since 1836 no distinctions of race have been recognised in the civil courts throughout India.

High Courts.

High Courts.

The highest legal tribunals in India are the High Courts of Judicature. These were constituted by the Indian High Courts Act of 1861 for Bengal, Bombay and Madras, and later for the United Provinces, superseding the old supreme and Sudder Courts. The Judges are appointed by the Crown; they hold office during the pleasure of the Sovereign; at least one-third of their number are barristers, one-third are recruited from the judicial branch of the Indian Civil Service, the remaining places being available for the appointment of Indian lawyers. Trial by jury is the rule in original criminal cases before the High Courts, but juries are never employed in civil suits in India. India.

in 1903 and the Code of Criminal Procedure. For other parts of India High Courts have in 1893. There Codes are now in force, been formed under other names, the chief

from the superior courts in the districts, criminal and civil, and their decisions are final, except in cases in which an appeal lies to His
Majesty in Council and is heard by the Judicial
Committee of the Privy Council in England.
The High Courts exercise supervision over all
the subordinate courts. Returns are regularly sent to them at short intervals and the High Courts are able, by examining the returns, by sending for proceedings, and by calling for explanations, as well as from the cases that come before them in appeal, to keep themselves to some extent acquainted with the manner in which the courts generally are discharging their duties.

Lower Courts.

The Code of Criminal Procedure provides for the constitution of inferior criminal courts styled courts of session and courts of magistrates. Every province, outside the Presi-dency towns, is divided into sessions divisiona, consisting of one or more districts, and every counsting of one or more matricts, and every sessions division has a court of session and a sessions judge, with assistance if need be. These stationary sessions courts take the place of the English Assizes, and are competent to try all accused persons duly committed, and to inflict any punishment authorised by law, but sentences of death are arbitrated. but sentences of death are subject to confirmation by the highest court of criminal appeal in the province. Magistrates courts are of three classes with descending powers. Provision is made and largely utilised in the towns, for the appointment of honorary magistrates; in the Presidency towns Presidency magistrates deal with magisterial cases and benches of Justices of the Peace or honorary magistrates dispose of the less important cases.

Trials before courts of session are Thats before courts of session are either with assessors or juries. Assessor assist, but do not bind the judge by their opinions; on juries the opinion of the majority provaits it accepted by the presiding Judge. The Indian law allows considerable latitude of appeal. The prerogative of merey is exercised by the Government concerned without prejudice to the superior power of the Crown.

The constitution and jurisdiction of the inferior civil courts varies. Broadly speaking, one district and sessions judge is appointed for each district: as District Judge he presides in its principal civil court of original jurisdiction; his functions as Sessions Judge have been described. For these posts members of the Indian Civil Service are mainly selected though some appointments are made from the Provincial Service. Next come the Subordinate Judges and Munsiffs, the extent of whose original jurisdiction varies in different parts of India.

difference being that they derive their authority from the Government of India, not from Parliament. In the Punjab and Burma there are
Chief Courts, with three or more judges; in
the other provinces the chief appellate authority is an officer called the Judicial Commissioner is
sioner. In Sind the Judicial Commissioner is
termed Judge of the Sudder Court and has two
colleagues.

The High Courts are the Courts of appear
from the superior courts in the districts, crimifrom the superior courts in the districts, crimi-Courts by the Insolvency Act of 1000.

> Coroners are appointed only for the Presi dency Towns of Calcutta and Bombay. Else-where their duties are discharged by the ordinary staff of magistrates and police officers unaided by jurors.

Legal Practitioners.

Legal practitioners in India are divided into Barristers-at-Law, Advocates of the High Court, Vakils and Attorneys (Solicitors) of High Courts, and Pleaders, Mukhtiars and revenue agents. Barristers and Advocates are admitted by each High Court to practise in it and its subordinate courts; and they alone are admitted to practise on the original side of some of the chartered Vakils are persons duly qualified High Courts. who are admitted to practise on the appellate side of the chartered High Courts and in the Courts subordinate to the High Courts. Attorneys are required to qualify before admission to practise in much the same way as in England. The rule that a solicitor must instruct counsel provails only on the original side of certain of the High Courts. Pleaders practise in the subordinate courts in accordance with rules framed by the High Courts.

Organisation of the Bar.

At Calcutta, Madras, and Bombay there is a Bar Committee presided over, ex officio, by the Advocate-General. This body is elected by the barristers practising in each High Court, and its functions are to watch the interests. of the Bar and to regulate its etiquette. At Allahabad, Lahore, Nagpore, and Rangoon a similar Bar Committee exists, but the electorate is extended to include the vakils or native pleaders, and the president is either the senior practising member of the Bar or the Government Advocate. In the larger Districts and Ses-Advocate. In the larger listicts and res-sions Courts, an organisation representing the Bar is usually to be found, and in the sub-ordinate Courts, including the Revenue Courts, similar machinery is generally in uso. Pending an opportunity of detailed inquiries in India, these general descriptions must suffice.

Composition of the Bor.

A considerable change is occurring in the composition of the Indian Bar. The following extract from an informing article in the Times extract from an informing article in the Times (May 25, 1914) indicates the character and incidence of this development: "During the last forty years, a striking change has taken place in the professional class. The bulk of mactice has largely passed from British to Indian hands, while, at the same time, the profession has grown to an enormous extent. One typical linustration may be quoted. Attachdid to the Rombay High Court in 1871 there The civil courts, below the grade of District ed to the Bombay High Court in 1871 there

were 38 solicitors, of whom 10 were Indian and 28 English, and 24 advocates, of whom 7 were Indian and 17 English. In 1911, attached to the same High Court, there were 150 solicitors, of whom more than 130 were Indian and the romainder English, and 250 advocates, of whom 10 only were English and the remainder Indian."

Low Officers.

The Government of India has its own law colleague in the Legal Member of Council. All Government measures are drafted in this department. Outside the Council the principal law officer of the Government of India is the Advocate-General of Bengal, who is appointed by the Croven, is the leader of the local Bar, and is always nominated a member the Provincial Legislative Council. In he is assisted by the Standing Counsel to Government Solicitor. There are advocates-General and Government Solicitors for Bombay and Madras, and in Bombay there

dvocates-General and Government Solicitors in Bombay and Madras, and in Bombay there is attached to the Secretariat a Legal Remembrancer, drawn from the Judicial Branch of the Indian Civil Service. The Government of Bengal consults the Bengal Advocate-General, the Standing Counsel and the Government Solicitor, and has besides a Legal Remembrancer (a practising barrister); the United Provinces are equipped with a civilian Legal Remembrancer and professional lawyers as Government Advocate and Assistant Government Advocate; the Punjab has a Legal Remembrancer, Government Advocate and a Junior Government Advocate; and Burma a Junior Government Advocate; and Burma a Junior Government Advocate; and Burma a Government Advocate, besides a Secretary to the Local Legislative Council.

of the Court.

Sanderson, Sir Lancelot ...

Law Reports.

The Indian Law Reports are published in four series—Calcutta, Madras, Bombay, and Allahabad, under the authority of the Governor-General in Council. They contain cases determined by the High Court and by the Judicial Council the containts of the Council Council the Council the Council Council the Council Coun Committee on appeal from the particular High Court. These appeals raise questions of very great importance, and the Council of Law Roporting for England and Wales show their appreciation by printing the Indian Appeals in a separate volume, and have also compiled a digest of Indian Appeals covering the period a digest of Indian Appeals covering the period 1874-1893. The other Provinces and States have series of reports issued under the authority cither of the Judiciary or the State.

Logislative Power.

The supreme power of Parliament to legislate for the whole of India cannot be questioned. In practice, however, this power is little used, there being a majority of officials on the Imperial Legislative Council—a majority delliberatoly reserved in the India Councils Act of 1909—the Secretary of State is able to impose his will on the Government of India and to secure the passage of any measure he may frame, regardless of the opinion of the Indian authorities. Legislative Councils have been established both for the whole of India and for the issues both for the whole of India and for the principal provinces. Their constitution and functions are fully described in detailing the powers of the Imperial and Provincial Councils (q. v.). To meet emergencies the Governor-General is vested with the power of issuing ordinances, having the same force as Acts of the Legislature, but they can remain in force for only six months. The power is very little used. The Governor-General-in-Council is also employeed to make applications. Sheriffs are attached to the High Courts of Sheriffs are attached to the High Courts of Calcutta, Madras and Bombay. They are appointed by Government, selected from non-officials of standing, the detailed work being done by deputy sheriffs, who are officers of the country, the object being to bar the operation of the general law and permit the application of certain enactments only.

Bengal Judicial Department.

.. | Chief Justice.

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Teunon, The Hon'ble'Mr. William, 1.0.s	Puisne Judge.
Woodroffe, .The Hon'ble Mr. John George, M.A., Bar nt-Law.	Ditto.
Mukharil, The Hon'ble Sir Ashutosh, Kt., Q.S.L., H.A.,D.L.	Ditto.
Richardson, The Hon'ble Mr. Thomas William, I.C.S., Barat-Law.	Ditto.
Walmsley, The Hon'ble Mr. Hugh, 1.0.8.	Ditto.
Chitty, The Hon'ble Sir Charles William, Bar,-at-Law. Fletcher, The Hon'ble Mr. Ernest Edward, Bar,-at Law	Ditto. Ditto.
Greaves, The Hon'ble Mr. William, Ewart Syed Shamsul-Huda, Hon'ble Nawab Sir, K.O.I.C.	Ditto. Ditto.
Chatarii, The Hon'bie Mr. Nalini Ranjan, M.A., B.L	Ditto. Ditto.
Newbould, The Hon'ble Mr. B. B	Ditto. Ditto

Bengal Judicial Department-contd.

neugal 4	udich	al De	part	ment—conld.		
Mitra; The Hon'lde Mr. Blued, Cha	ndra, I	lat,-al-	-I.nw.	Officiating Advocate-General,		
Das, Satish Ranjan Kerteven, The Hou'ble Mr. Charles	Henry	••	••	Officiating Standing Counsel, Government Solicitor.		
Pauton, The Hon, Mr. U. B. H.	••	- •		Superintendent and Remembrancer of		
Om, John Williams, Barcat-Law.,	• •	••	••	Deputy Superintendent and Remem-		
Ram Charan Mitra	**		••	brancer of Legal Affairs. Seplor Government Pleader,		
Hume, J. T	••	••	••	Public Prosecutor, Calcutta.		
Hechle, James Herbert	••	••	••	Registrar, Keeper of Records; Taxing Officer, Accountant-General, and Scaler, etc., Original Jurisdiction.		
Remfry, Maurice Natini Mohan Chatarji, Bar,-at-Law	••	**	••	Scaler, etc., Original Jurisdiction, Registror in Incolvency, Original Side, Master and Official Referce.		
Ryper, George Ikinnaud, William Augustus, Bar, at-	I.w	••	• •	Dy. Registrar. Clerk of the Crown for Criminal Sessions.		
Kirkham, Joseph Alfred	••	• •	••	Secretary to the Chief Justice and Read Clerk, Decree Department.		
Veltch, Harold Massyn, n.s., 1.0.s.	••	••	••	Register and Taxing Officer, Appellate		
Counsell, Frank Bertram		• •	••	Deputy Registrar.		
Paulit, Peter Sydonham Grey, Charles Edward, Barat-Law	••	••	••	Assistant Registrar. Administrator-General and Official Trustee.		
Ronnerjee, K. K. Shelly, Barat-Law Robbin, P. K., Barat-Law Falkner, George McDonald		**	••	Official Receiver, sub. pro tem. Coroner of Calcutta. Official Assignee.		
Bose, n.p., Barat-Law		•	• •	Editor of Law Reports,		
Bombay Judicial Department.						
	-		_	Chief Justice.		
Scott, The Hon'ble Sir Basil, Kt., M.S. Shah, The Hon'ble Mr. Lalinbhai Asl Batchclor, The Hon'ble Sir Stanley L. 1.C.S.	hamm, ockhar	M.A., I	L.B. B.A.,	Pulme Judge. Ditto.		
Marten, The Hon, Mr. A. B. Beaman, The Hon'ble Sir Frank Clem Heaton, The Hon'ble Sir Joseph John	ent Off	ley, 1.0	.s	Ditto. Ditto. Ditto.		
Bar-at-Low.	CIMU	toun,	B.A.;	Ditto. (On fuctough).		
Abdeali Muhammadali Kazili, The He Strangman, the Hon'ble Mr. T. J.	n. Mr.	••	••	Ditto. (Officiating). Advocate-General.		
French, George Douglas	**		**	Remembrancer of Legal Affairs.		
Milne, Robert Blair, M.A., LC.S.	**	••	••	Acting Assistant Remembrances of Legal Assistant		
Nicholson, Eustace Ferrers	** *	. * *		Government Solicitor and Public Prose- cutor.		
Campbell, Henry	••		**	Clerk of the Crown (On leave), Acting Clerk of the Crown,		
Weldon, Walton Langford, Barat-La Slater, John Sanders, B.A., Barat-La	W. W.,		::	Reporter to the High Court. Administrator-General and Official		
Phirozahah Behramji Malbari, Barat	wa.I-	••		Officiating Prothonotary, Testament.		
Hirjibliai Hormasji Wadia, M.A	••	••		ary and Admiralty Registrar, Master and Registrar in Equity and Commissioner for taking Accounts and Local Investigations, and Taxing Officer,		
Mahomedbhoy Hallishoy Lalli				Sheriff.		

Sheriff. Registrar, Appellate Side,

Mahomedbhoy Hallishoy Lalli Allison, Frederick William, B.A., 1,0.3.

Bombay Judicial Department-contd.

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Deputy Registrar and Sealer, Appellate
Nasurwanji Dinshahji Charda, B.A., LL.B.
                                                                                Side.
                                                                             Coroner. (On leave.)
Lambert, E. T.
                                                                             Acting Coroner.
Nunan, Dr. W.
                             COURT OF THE JUDICIAL COMMIS
                                                                             SIONER OF SIND.
                                                                             Judicial Commissioner.
Pratt, Edward Millard, 1.C.S.
Hayward, Maurice Henry Weston, LL.B., Bar.-at-Law ..
                                                                             Additional Judicial Commissioner.
Cronch, Henry Newton, LL.B., Bar.-at-Law
                                                                             Additional Judicial Commissioner.
                                    Madras Judicial Department.
Wallis, The Hon'ble Sir John Edward Power, Kt.,
                                                                              Chief Justice.
MAL, Bar.-at-Law.

Abdur Rahlm, The Hon'ble Mr.; M.A.; Bar.-at-Law.

Abdur Rahlm, The Hon'ble Mr. Francis Du Pre, I.C.s.

Spencer, The Hon'ble Mr. Charles Gordon, I.C.s.
Trotter, The Hon'ble Mr. Victor Murray Coults
Seshagiri Ayyar, The Hon. Mr. T. V., B. A., B. L.

Bedansiva Ayyar, The Hon'ble Diwan Bahadur T.

Ayling, The Hon'ble Mr. Villiam Bock, I.C.s.
                                                                              Puisne Judge.
                                                                                    Ditto.
                                                                                    Ditto.
                                                                       - -
                                                                                    Ditto.
                                                                                    Ditto.
                                                                                     Ditto.
                                                                                     Ditto.
  Bakewell, The Hon'ble Mr. James Herbert, LLB Bar.-
                                                                               Officiating Judge (Additional).
     at-Iaw.
  Kumaraswami Shasiri, The Hon'ble Diwan Bahadur
                                                                                             Ditto.
    C. V.
  Phillips, The Hon'ble Mr. William Watkin
                                                                                              Ditto.
  Krishnan, The Hon'ble Mr. O., Bar.-at-Law
                                                                                             Ditto.
  Srinivasa Ayyangar, The Hon. Mr. S., B.A., B.L.
                                                                               Advocate-General.
  Brightwell. Henry
Ramesam Pantulu
Osborne, E.R.
Grant, P. R., Bar.-at-Law
Odgers, The Hon'ble Mr. C. E., M.A., Bar.-at-Law
                                                                               Government Solicitor.
                                                                               Acting Government Pleader.
Acting Public Prosecutor.
Senior Law Reporter.
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                                                                                                                           Officia
                                                                               Administrator-General
                                                                                                                and
                                                                                   Trustee.
  Mackay. Charles Gordon, 1.0.9.
                                                                                Registrar.
  Adam, John Collyer, M.A.
                                                                               Crown Prosecutor.
                                          Assam Judicial Department.
                                                                               Judge and Superintendent and
                                                                                                                               Re
  Abdul Majid, The Hon. Mr., B.A., LLB., Bar.-at-Law .
                                                                                  membrancer of Legal Affairs, Shillong
                                                                                  (On leave).
  Graham, John Fuller
Sankey, G. C.
Liddell, Henry Crawford
                                                                               Acting.
                                                                               Judge, Assam Valley Districts; Gauhati
                                                                               District and Sessions Judge, Sylhet and
                                                                                  Cachar.
   Purnachandra Basu
                                                                               Additional
                              Bihar and Orissa Judicial Department.
   Chamler, The Hon. Sir Edward Maynard Deschamps, Kt. Roe, The Hon. Mr. Francis Reginald, 1.0.8.
Atkinson, The Hon'ble Mr. Ceell, E.C.
Jwals Prashad, The Hon'ble Mr.
All Imam, The Hon'ble Sir Sayyid
Chapman, The Hon. Mr. Edmund Pelly, I.C.S.
While The Hon No. Edmund Pelly, I.C.S.
                                                                               Chief Justice.
                                                                               Puisne Judge.
                                                                                     Ditto.
                                                                                    Ditto.
                                                                                    Ditto.
                                                                                     Ditto.
   Mullick, The Hon ble Mr. Basanta Kumar, 1.C.S.
Sultan Ahmad, Bar.-at-Low
                                                                                    Ditto.
                                                                         ٠.
                                                                               Government Advocate.
                                                                         . .
    Adami, The Hon'ble Mr., L.C.
                                                                               Superintendent and Remembrancer of
                                                                         ۰.
                                                                                  Legal Affahrs.
    Coutts, William Strachan, L.C.S. ..
                                                                               Registrar.
                                       Burma Judicial Department.
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Twomey, The Hon'ble Mr. Daniel Harold Ryan, I.C.S., Bar. at-Law.

Ormond, The Hon'ble Mr. Ernest William, B.A., Bar.-

Robinson; The Hon'ble Mr. Sydney Maddock; Bar.-

at-Law.

at-Law.

Chief Judge; Chief Court; Lower Burma

(On leave)

Judge.

Officiating Chief Judge.

Burma Judicial Department-cord. Officiating Judge, Parists, The Routlie Mr. Leonard Mortainse Natur, The Routlie Mr. Charles Philip Hallons, R.s., Judge. Covernment Advocate, (Onleave) Far satilaw. Sansten, Leib Henry, & Co. Indical Commissioner, Upper Burma, Administrator-General, Official Trustee, ben, Puma Chun ira, Mar. at-Law Omeial Assistance and Receiver, Ran com. (On leave). Officiating do.. Sen, Carrolta Sud, Bar, at-Lau Thereofter, S. A., Ext. at-Law ... Introde, Arthur John, Bar. at-Law Government Prosecutor, Rangoon, . . Dato. Moulmein. ٠. ٠. . . Registrar, Chief Court, Lower Burma, Registrar, Court of Indicial Commis-sioner, Upper Burma. Dattie, Lement Colory, LOS., Miller, Edward Central Provinces, Judicial Department. Diale Engliman, Sir H. V., M. C., M.R., Baroat-Law, Judicial Commissioner. I.C.T. Patien, J. R., Les., Stanyon, H. J., Che., V.D., A.D.C., Barost-Jaw Pirt Additional Judicial Commissioner. Second Additional Judicial Commiseloner. Jackson, Robert John Parando, K. G. Registrar. Deputy Registrar. N.-W. Frontier Province Judicial Department. Officiating Judicial Commissioner. Resple. P. P., Ca.P., LC.S. Mahammad Akhar khan .. | Registrar. Puniab Judicial Department. Battigan, The Hon'ble Mr. Henry Adolphus Byden, B.A., | Chief Judge. Bar. st. Law. Stah Din, The Hon'ble Man Muhammad, Bar, at-Law... Judge. Smith, The Hon'ble Mr. H. Scott, LC.F. Do. 4 0 Smith, Inc flow or Mr. H. Scott, I.C.F. Chails, The Hon'ble Mr. William, I.C.F. Shadi Lai, The Hon'ble Rai Bahadur, Bar, at-Law Le Rossignol, The Hon, Mr. Walter Aubin, I.C.S. Levie Jones, The Hon, Mr. Legrenter Hudson, I.C.S. Eroadway, The Hon, Mr. Alan Brice, Bar, at-Law Dο. Do. First Temporary Additional Judge. Second Temporary Additional Judge. 1 Administrator General and Off . . 1 Trustee. Legal Remembrancer. Gracey, S. W., B.A., I.C.S. . . Petman, Charles Bevan, B.A., Bar, at-Law Government Advocate. Terguson, John Alexander, M.A., L.C. ... Registrar. United Provinces, Judicial Department. Richards; The Hon'ble Sir Henry George, Kt., Bar.-at- | Chief Justice. Richards; The Hon die Sir Henry Cooks, Law, K.C. Knox, The Hon'ble Sir George Edward, Kt.; LLD., L.C.S. Banarii, The Hon'ble Sir Framada Charan, Kt., B.A., B.L. Riggott. The Hon'ble Mr. Theodore Caro, Lo.S. Tudball. The Hon'ble Mr. William, Lo.S. Walsh, The Hon Mr. Cecil, Bar-at-Law, M.A. Hafiq, The Hon Mr. Alfred Edward, Bar-at-Law Eyres, The Hon. Mr. Alfred Edward, B.A., Bar-at-Law. Bourdillon, Bernard Henry, Lo.S. Danlels. Stanley Reginald, Lo.S. Pulsuc Judgo. Ditto. Ditto. Ditto. Ditto. Ditto. dovernment Advocate. Registrar. Daniels, Stanley Reginald, 1.0.8. Porter, Wilfred King, Bar.-at-Law Legal Romembrancer. Law Reporter and Secretary, Legisla .. Connell. Government Pleader. Lalit Mohan Banarii COURT OF JUDICIAL COMMISSIONER OF OUDIN-LUCKNOW. Lindsay, Benjamin, 1.0.8. ... Stuart, Louis, 1.0.8. Judicial Commissioner. First Additional Judicial Commission .. Rai Kanhaiya Lai, Bahadur Second Additional Judicial Comp sioner.

Temporary Registrar.

Government Pleader,

Cordeux, C. H., Bar.-at-Law

Nagendra Nath Chosal ...

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* Details not given of 42 Bombay sults in 1906; 56 Madras sults in 1906, 96 in 1907, 74 in 1908, 92 in 1609, 370 in 1914, 370 Repril sults in 1909; and 1914, 1914, 1914, 370 Repril sults in 1909; and 1914, 1914, 1914, 1916, 1918	2 Bom 1913, a	bay sul	Its In 19 outts In 1	06: 50 M	adras cult Bengal se	4 In 1906	90 in 100	17, 74 ln 1	908, 92 I	n 1709, 37	6 In 1910,	71 in 1911.	

THE INDIAN POLICE.

The Indian Government employ 196,304 report all matters of local interest to their Officers and men in the Indian Police. The total superior, the Sub-Inspector. They invo no cest of maintaining the Force is Rs. 3,057,038. In large cities, the Force is concentrated and of the period when the country was in a disturbed under direct Luropean control; in the motusall state and small bodies of Police were required the men are scattered throughout each District to keep open commications and afford present located at various Outposts and Police tection against the raids of dacoits. It is an open and located at various Outposts and Police tection grains the raids of decoits. It is an open Stations. The smallest unit for administrative question whether they are now of much use, purpose is the Outpost which generally contact the control of a list controlled by an officer known as a Sub-Head Constable. Outpost Police are main Inspector, tained to patrol roads and villages and to

Distribution of Police.—The area of a Police Station varies according to local conditions. The latest figures available are: -

	_					Average area per Police Station.	Average number of Regular Civil Police per 10,000 of Population.
					-	Square miles.	
Bengal				••		126	4'8
Assam ·			••	••		616	5.3
United Province		••	••	• •		127	7.7
Punjab		**	• •	••		203	10 8
North-West From	itler Pr	ovince	••			170	10.8
Central Province	es and I	Berar	••	••		242	8.6
Burma *			••		•• ,	487	13*4
Madras		••	••		** .	144	8.0
Bombay *		••				252	15.0
)		'

[·] Excluding the towns of Calcutta, Bombay and Rangoon. The figures include the Rallway police, but not Military police.

Organisation of Police.

Superior to the Sub-Inspector is the Inspector who holds charge of a Circle containing 4 or of supervision and inspection. He does not ordinarily interfere in the investigation of orime unless the conduct of his subordinates renders this necessary.

The Police Station Officer (the Sub-Inspector) is responsible for the investigation of all cognisable crimes, that is to say, all offences in which the Police can arrest without a warrunt from a Magistrate, which occur within his jurisdiction; he is also held responsible for the maintenance of the public peace and the prevention of crime. From the point of view of the Indian Byot, he is the most important the public peace, and the District of Sub-divisions—one to the Indian Byot, he is the most important the public peace, and, to his Deputy Inspector-General, for the internal be considered the backbone of the Force. tricts form a Range administered by a Deputy Inspector-General, an officer selected from the ranks of the Superintendents. At the head of the Police of each Province is the Inspector-General who is responsible to the Local Government for the administration of the Provincial Police.

renders this necessary.

The Inspector is usually a selected and experienced Rab-Inspector. Each District conment, which is under the control of a specially tains 3 or 4 Circles, and in the case of large selected European Officer of the rank and

called the C. I. D., is mainly concerned with political inquiries, sedition cases and crimes with ramifications over more than one District or which are considered too important to leave in the hands of the District Police. It is a small force of Sub-Inspectors and Inspectors who have shown their ability and intelligence when working in the mofusil and forms in each Province a local Scotland Yard.

The larger Cities of Calcutta, Bombay, and Madras have their own Folice Force, independent of the Inspector-General of Police, and under the control of a Commissioner and 2 or more Deputies. For Police purposes carb city is divided into divisions; in Calcutta each division is in charge of a Deputy Commissioner of Folice; in Bombay and Madras of a Superin-tendent, these officers being selected from the European ranks of the City Force. In Bombay, the Superintendents are Gazetted small number of Police Stations, the station being in charge of an Inspector assisted by Indian Sub-inspectors and European Sergeants.

The Supreme Government at Delhi and Simla keeps in touch with the Provincial Police by means of the Director of Criminal Intelli-gence and his Staff. The latter do not interfere in the Local Administration and are mainly concerned with the publication of informa-tion regarding international criminals, inter-provincial crime and Political Inquiries in which the Supreme Government is interested.

Recruitment.—The constable is calleted locally. Certain castes are excluded from service and the formation of cliques by filling p the Force from any particular casts or locality is forbidden. In some Provinces a fixed percentage of foreigners must be enlisted. Recruits must produce certificates of good character and pass a medical test. They must be above certain standards of physical development. The constable rises by merit to the topment. The constants rises by ment to any rank of Read Constable and, prior to the Polico Commission, could rise to the highest Indian subordinate appointments. Since 1906, his chances of promotion have been greatly curtailled; this has certainly lowered the standard coming forward for service in the Force in the lower ranks.

The Sub-Inspector, until 1906, was a selected Head Constable, but Lord Curzon's Commission laid down that Sub-Inspectors should be recruited direct from a socially better class of Indians. In most Provinces, eighty per cent. of the Sub-Inspectors are selected by nomination, trained for a year or 18 months at a Central Police School, and, after examination, appointed direct to Police Stations to learn their work by actual experience. It is too early to judge this system by results, but it has no doubt great disadvantages and undetected crime in India is increasing rapidly.

An Inspector is generally a selected Sub-Inspector. Direct nomination is the exception, not the rule.

standing of a Deputy Inspector-General. The the Commission, is an Indian gazetted Criminal Investigation Department, usually and is the native Assistant to the D and is the native Assistant to the Disting Superintendent of Police. He is either selected by special promotion from the ranks of the Inspectors or is nominated direct, after & Louis. at the Central Police School.

> Prior to 1893, the gazetted ranks of the Force were filled either by nomination or by regimenial officers seconded from the Army for certain periods. In 1893, this system was abandoned and Assistant Superintendents were recuited by examination in London. On arrival in India they recent India, they were placed on probation until they had passed their examinations in the vernacular in law, and in riding and drill. The extab-lishment of Police Training Schools in 1906 has done much to improve the finining of the Police Probationer, and selection by examination has given Government a better educated office, but open competition does not reveal the best administrators and should be tempered, as in the Navy, by selection.

> Pay.-The monthly salaries drawn by each grade of Police Officer are as follows :-

.. Rs. 10 to 12 A constable draws from 15 to 20. A Head Constable draws 50 to 100. A Sub-Inspector from 150 to 250. An Inspector from

Deputy Superintendents from 250 to 500 .. ;, 300 to 500. Assistants from

District Superintendents of Police from ..Rs. 700 to 1,200. Deputy Inspectors-General

from .. Rs. 1,500 to 1,800. Inspectors-General from Rs. 2,000 to 3,000

The appointments of Commissioner of Police, Calcutta, Bombay, and Madras, and all Pro-vincial Inspectors-General, may be held by a member of the Indian Civil Service, if no Police Officer is found suitable for such appointments.

Internal Administration.-The Force is divided into 2 Branches Armed and Unarmed. As the duties of the armed branch consist of guarding Treasuries, escorting treasure and prisoners and operating against danger ous gangs of dacolts, they are maintained and controlled on a military basis. They are armed and drilled and taught to shoot after military methods. The unarmed branch are called upon to collect fines magisterially inflicted, serve summonses and warrants, traffic, destroy stray dogs, extinguish fires, enquire into accidents and non-comurable offences. The lower grades are clothed and housed by Government without expense to the individual. The leave rules are fairly libers! but every officer, European or Native, must serve for 30 years before he is entitled to any pension, unless he can obtain a medical certificate invaliding him from the service. This period of service in an Eastern climate is generally admitted to be too long and the efficiency The Deputy Superintendent, a new class of if Government allowed both the officers and officer; instituted on the recommendation of men to retire after a shorter period of service.

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House-trespags and Housebrak- lag with intent to commit Offence,	Roported.	17,042	27,52 12,68 14,08 14,0	1,830 9,450 1,000 1,700	0,327 38 18,552 10,021 1,401	235,500	216,817 205,800 100,480 100,001 100,001 207,838 216,330 216,330 104,330		
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	Ordinary Theft.	Reported.	28,678 4,83%	20,270 10,280 10,310 303	16,776	4,858 1163 11,803 6,200	188,286	178,824 174,727 176,001 100,301 100,451 101,240 178,808 178,808 178,001	
	heft.	Convic- tion obtained.	080	1,200	1,400	138	8,248	7,020 7,495 7,171 7,200 7,402 7,831	
	Cattlo Theft,	.bottodeli	1,681	1,728 3,500 8,000 8,000 8,000	010 ci	3,100 3,400	28,382	99999999999999999999999999999999999999	theft.
CASES.	Mty.	Convio-	101	1663	_ 86_98	H (37)	733	250 200 200 200 200 200 200 200 200 200	f cattle
3	Dacofty.	.bottodo3	1	101 210 275 1	- 30 G	15 715 184 1	3,730	6,619,619,619,619,619,619,619,619,619,61	some eases of eattle theft.
	Other serious Offences against the Person.	Convic- tion btained.	1,378	ejej 9900 1000 1000		100 H	15,186	15,224 15,723 14,763 14,763 12,743 12,047 12,047 12,050 12,523	
·	Other seriou Offences agai	oported.	1 5.88.3 1008	800.00 800.00 1781.0	10,312	1,21 4,04 4,040 4,040	51,703	60000000000000000000000000000000000000	* Including
	Murder.	Convic- tion bialacd.			8897		7	4444464666	1
		eparted	8.	1 20 cc	173	2,55	1,307	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Offoners against the State and Public	tho	convic-	, es.,				<u>-</u>	4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,	1
	eported.	H 61	800 1,010 1,010	1000	651 1,846 1,118	11,608	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
, ,		tlons.	- 1	rn and	tler Pro.		510	101111111111111111111111111111111111111	
	Administrations			Torin 1001 1001	Deliu NVest Frontler Burma Rangoon	Sorar, Assam Coorr Madris Dombny	Dominay towns: Toral: 1915	Totals	: .

JAILS.

Jail administration in India is regulated number of convicts were employed in excavating generally by the Prisons Act of 1801, and by the Jhelum Canal in the Punjab. Within the rules issued under it by the Government of walls prisoners are employed on jail service and India and the local governments. The punishments authorised by the Indian Penal Code for convicted offenders include transportation, mal servitude, rigorous imprisonment (which may include short periods of solitary confine-ment), and simple imprisonment. Accom-modation has also to be provided in the julis for civil and under-trial prisoners.

The origin of all fall improvements in India in recent years was the Jail Commission of 1899. The report of the Commission, which consisted of only two members, both officials serving under the Government of India, is extremely long, and reviews the whole question of jail organization and administration in the minutest detail. In most matters the Commission's recommendations have been accepted and adopted by Local Governments, but in various matters, mainly of a minor charac-ter, their proposals have either been rejected ab initio as unsuited to local conditions, abandoned as unworkable after careful experiment or accepted in principle but postponed for the present as impossible.

The most important of all the recommendations of the Commission, the one that might in fact be described as the corner stone of their report, is that there should be in each Presi-dency three classes of julis; in the first place, large central falls for convicts sentenced to more than one year's imprisonment; secondly, district falls, at the head-quarters of districts; and, thirdly, subsidiary falls and convicts sentenced to short terms of imprisoners and convicts sentenced to short terms of imprisonment. The joil department in each province is under the control of an Inspector-General; he is generally an officer of the Indian Medical he is generally an officer of the Indian Medical Service with jail experience, and the Superintendents of certain jails are usually recruited from the same service. The district jail is under the charge of the civil surgeon, and is frequently inspected by the district magistrate. The staff under the Superintendent includes, in large central jails, a Deputy Superintendent to supervise the jail manufactures, and in all central and district jails one or more subordinate medical officers. The executive staff consists of jailors and warders, and convict petty officers are employed in all central and district jails, the prospect of promotion to one of these posts the prospect of promotion to one of these posts being a strong inducement to good behaviour, A Press Note issued by the Bombay Govern-A Press Note issued by the Bombay Govern-ment in October, 1016, says.—"The cadre and emoluments of all ranks from Warder to Super-ntendent have been repeatedly revised and altered in recent years. But the Department is not at all attractive in its lower grades. The wo weak spots in the fall administration at the moment are the insufficiency of Central Prisons and the difficulty of obtaining good and sufficient warders.

walls prisoners are employed on jall service and repairs, and in workshops. The main principle laid down with regard to jall manufactures is that the work must be penal and industrial. The industries are on a large scale, multifarious employment being condemned, while care is taken that the jail shall not compete with local traders. As far as possible industries are adapted to the requirements of the consuming public departments, and printing, tent-making, and the manufacture of clothing are among the commonest employments. Schooling is conand to juveniles; the experiment of teaching adults has been tried, but literary instruction is unsultable for the class of persons who fill an Indian fall.

The conduct of convicts in jull is generally good, and the number of desperate characters among them is small. Failure to perform the allotted task is by far the most common offence. allotted fast is by far the most common offence. In a large majority of cases the punishment inflicted is one of those classed as "minor." Among the "major" punishments fetters take the first place. Corporal punishment is inflicted in relatively few cases, and the number is steadily falling. Punishments were rovised as the result of the Commission of 1889. Two notable punishments then abolished were shaving the heads of female prisoners and the stocks, The latter, which was apparently much procsion as inflicting exquisite torture. Punishments are now scheduled and graded into major and minor. The most difficult of all jail pro-blems is the internal maintenance of order among the prisoners, for which purpose fails warders and convict warders are employed. With this is bound up the question of a special class of well-behaved prisoners which was tried from 1905 onwards in the Thana Jail.

Juvenile Prisoners.—As regards "youth-ful offenders"—i.e., those below the age of 15 —the law provides alternatives to imprisonment, and it is strictly enjoined that boys shall not be sent to fail when they can be dealt with other-wise. The alternatives are detention in a wise. In a definitive are deterior in a reformatory school for a period of from three to seven years, but not beyond the age of 18; discharge after admonition; e delivery to the parent or guardian on the latter executing a bond to be responsible for the good behaviour of the culprit; and whipping by way of school discipline.

The question of the treatment of "young adult" prisoners has in recent years received much attention. Under the Prisons Act, prisoners below the age of 18 must be kept reparate from older prisoners, but the recomition of the principle that an ordinary jail is not a fitting place for adolescents (other than youthful habituals) who are over 15, and therefore intelligible for admission to the reformatory school, has led Local Governments to consider schemes for roline beyond this by traying young nature. Employment of Prisoners.—The work for going beyond this by tracking young adults m which convicts are employed is mostly arried on within the fall walls, but extra-nural employment on a large scale is sometimes allowed; as, for example; when a large young adults was established at the Dharwar

centrate adolescents in the Punjab at the convict enters the first class, in which he labours labour District jail, which is now worked on under more lavourable conditions, or is granted Borstal lines. Other measures had proviously a ticket snabling him to support himself, with Borstal lines. Other measures had previously a ticket enabling him to support himself, with item taken in some cases; a special reformatory a plot of land. He may now good for his ismity system for "juvenilo adults" had, for example, for marry a female consist. The three lates seen in force in two central jalts in the Punjab stages of this discipling have been in force Le ince the early years of the decade, and "Borse many years, and the first for some time, the all enclosures" had been established in some cellular jall having been finished in 1905; here alls in Bengal. But the mubble is above that and hat little progress has been made in the lormation of Prisoners' Ald Societies except by the Salvation Army.

Reformatory Schools.—There schools have been administered since 1809 by the Libration department, and the authorities are directed to improve the industrial education of the inmates, to help the boys to obtain employment on leaving school, and as far as portible to keep a watch on their careers.

Transportation.-Transportation is an old punishment of the British Indian criminal law, and a number of places were formerly appointed for the reception of Indian transported convicts. for the reception of reaches at the present time. The only penal settlement at the present time is Port Blair in the Andaman Islands. Under the Port Blair in the Andaman Islands. convicts sentenced to transexisting rules portation for life, or for a term of years of which

jall in Bombay; in 1903 a special jutentic labour by day and confined in buttacks by jall was opened at Alipore in Bengal; in 1909 night. Having thus completed five years, a the Meiktila jall in Burma and the Tanjare jall consist may be promoted to the second clarg in Madras were set aside for adolescents, and in which he is clusted for employment in the new jall for juvenile and "juvenile and the "warlous branches of the Corriment excitere convicts was opened at Bareilly in the United to in the capacity of servants to a judget religious products; and in 1910 it was decided to condens. After the years as agent, a well-behaved centered adolescents in the Punjab at the convictement the first clare to which he laboure alls in Bengal. But the public is slow to the associated fall for the second stary list not appreciate that it has a duty towards prisoners, yet been built. Females are kept at luttamural work under strict jall discipline for three years; for the next two years they are subjected to a lighter discipline, and at the end of the years they may support themselves or marry. Fromotion from class to class depends on good conduct. The convicts are employed in jail service, in the erection and repair of fall build-ings, in the commissariat, medical, matine, and forest departments, in tea-gardens and at other agricultural work, and in various fall manu-factures. Ordinary male convicts tentenced to transportation for life are released, if they have behaved well, after twenty years, and persons convicted of daroity and other organised crime after twenty-five. Thors and feesional prisoners are never released. Well-behaved female convicts are released after fifteen years. The release is sometimes also into and sometimes, especially in the case of six have still to run, may be transported to the dacolts, subject to conditions, e.g., in regard to Andamans, subject to their being physically at, residence. In some cases released convicts Andamans, subject to their being physically fit, tendence. In some cases released convicts and to some other conditions in the case of prefet to remain in the settlement as free person, women. The sanctioned scheme contemplates The settlement is administered by a superfive stages in the life of a male transported intendent, aided by a staff of European assistants convict, the first six months being passed in a land Indian subordinates. The convict population in a jail similar to those of the Indian 12,425, consisting of 11,861 males and 501 mainland, and the following three years as a females. The total population of the settlement convict of the third class kept to hard gang was 17,331.

7

The variations of the fail population in British India during five years are shown in the following table:-

In the lene and the lene to						
Anana	1916.	1015.	1914,	1913.	1912,	1911.
Administration a distribution of the scoon	122,282 550,971	112,015 568,290	103,555 616,008	101,005 402,008	01,870 402,820	102,001 470,513
Discharged during the year from a	673,253 11 657,525	080,293 558,008	621,663 600,638	501,216 468,677	684,696 482,786	673,604 481,6 <u>00</u>
Jan population on 31st December .	. 115,728	122,287	112,015	105,539	101,010	01,852
Admirelone duelng the week	107,800 173,441			89,287 160,851	70,008 150,424	91,605 152,398
Released during the year Transported beyond ross Convention &c	281,247 175,587 1,683 2,900	109,508	159,468	250,138 154,494 1,560 • 2,053	147,292	243,901 151,936 1,138 2,222
Convict population on 31st December	r, 102,208	107,811	98,963	92,013	89,287	79,668

The daily award number of princhers, which had steadily decreased since 1008, rose slightly in 1612 to need the form of 1911. The fall in 1912 was, however, largely attributable to the telese of countries and civil princes or the occasion of the Delhi Durhar. The increase in 1918 was distributed among all provinces except the United Provinces of Agra and Oudh and Coorgin to the Countries of the

Note than credult of the total number of convicts received in Jalis during the Gear come from the classes easy for I in agriculture and cattle tending, over 141,000 out of 175,000 are returned as filterate.

The permutary of previously consisted pulsoners was 10°87 as against 10°67 in 1016 while the number of postigal offenders fell from 418 to 359. The following table shows the nature and length of sentences of convicts admitted to falls in 1014 to 1916—

to the contract of the terms are the second to the second of the second			
Nature and Length of Sentence,	1910,	1915.	1914.
Note we ling one month	42,669	45,101	43,685
Above one menth and not exceeding six months	60,388	09,316	66,113
** skamonths ** ** one year	34,725	34,749	31,284
the great in the Registration	23,062	24,755	21,989
" five years " " ten "	2,631	2,084	2,619
Executing ten years	345	242	250
Transportation beyond seas			
(a) forlife	1,197	1,309	1,308
(%) for a term	745	1,180	720
Sentrared to death	791	828	831
1	•		

The total daily average population for 1915 was 102,342; the total offences dealt with by criminal courts was 103, and by Superintendents 179,112. The corresponding figures for 1914 were 95,260,192 and 175,277 respectively.

The total number of corporal punishments again showed a decrease, riz., from 352 to 327. The total number of cases in which penal diet (with and without solitary confinement) was prescribed was 7,323 as compared with 7,591 in the preceding year.

Total expenditure rose from £018,683 to £009,464, and total cash carnings increased from £109,551 to £127,680; there was, consequently, an increase of £32,708 in the net cost to Government.

The death rate increased from 17°84 per mills in 1914 to 18°35 in 1915. The admissions to hospital were somewhat higher, and the daily average number of sick rose slightly. The chief causes of death were tubercle of the lungs, dysentery and meumonia.

rather than by a police officer whose profes- objections advanced against the existing ayafload real might weigh hardly on the tem. In the first place a Magistrate in headsional real might weigh hardly on the innocent suspect, and whose caprit de corps might shield a corrupt or unscrupulous subordinate from justice.

(3) "That Executive Officers in India, being responsible for a large amount of miscellaneous business, have not time satisfactorily to dis-

pose of judicial work in addition.

By this it is presumably meant that the Drecutive Officer is at present overworked. This is quite possible, but the remedy would appear to lie rather in an increase of staff than in a re-distribution of functions, which

in itself could not remedy the defect. "That, being keenly interested in carry-

ing out particular measures, they are apt to be brought more or less into conflict with individuals, and therefore that it is inexpedient h that they should also be invested with judicial powers,"

It is implied here that the District Officer may use his judicial powers to enforce the executive measures in which he is interested. is not unknown for a District Magistrate to hanc orders to subordinates enjoining severe tentences in particular classes of cases and this may have reference to a particular executive policy (e.g., such orders might be issued with ferning to smuggling cases in a District where the illicit traffic in cocaine was rife). But it by no ment traffic in cocaine was rife). But it by no means follows that any injustice will result from such a line of action. Moreover, if this kind of interference" by the District Magistrate were stopped, the only alternative left to Government, in cases where they wished specially to repress a particular type of crime, would be to amend the criminal codes by raising the minimum penalty for the offence, thereby depriving Magistrates of all discretion in the matter.

Magistrates of all discretion in the matter.

(6) "That under the existing system Collector-Magistrates do, in fact, neglect judicial

for executive work."

It is not at first sight obvious how this can to urged as an objection to the fact that they do both types of work. It is true, as already stated, that the District Magistrate tries very few original cases, but it by no means follows that what judicial work he does, is done negligently.

(6) "That appeals from revenue assessments are spt to be futlie when they are heard by

Revenue Officers."

Revenue Officers."

It is insinuated that all revenue matters should be decided by the operation of the weighty and complicated machinery of the Civil Courts. The ides of such a system in India, where three-quarters of the population are dependent on revenue-paying land, conjures up such a nightmare of confusion, that the imagination positively reels. The cost would be colossal. Nor is the objection really relevant. The Revenue Officer when hearing appeals from executive acts of his subordinates, appeals from executive acts of his subordinates, is still an Executive and not a Judicial Officer, and what is here aimed at is a revision of the scheme of matters, which the law allows to be dealt with executively, rather than a separa-

tion of the two functions.
(7) That great inc great inconvenience, expense and sufferings are imposed upon suitors required to follow the camp of a Judicial Officer, who, In the discharge of his executive duties, is making a tour of his District."

This is perhaps one of the least convincing ent of this control,

quarters is likely to be at least as far from the homes of sultors, as he is in camp. The careful Magistrate, moreover, will arrange the hearing of cases at places which suit the convenience of parties as far as possible, and considerable trouble and expense are often saved to parties in this way. If all judicial work were done by Magistrates who had no other work, the number of Magistrates would be much reduced, and it is obvious that three resident Magistrates in a District must be much less accessible than a dozen or more who are continually moving about among the agricultural population. The only people who really are inconvenienced by the touring of a Magistrate are the pleaders.

(8) "That the existing system not only involves all whom it concerns in hardships and inconvenience, but also by associating the judicial tribunal with the work of the Police and of detectives, and by diminishing the safeguards afforded by the rules of evidence, produces actual miscarriages of justice and creates, though justice be done, oppor-tunities of suspicion, distrust and discontent which are greatly to be deplored."

It is difficult to answer so general and in-

definite an objection as this, except by flat denial. It may, however, be said that if miscarriages of justice, due to this cause, were at all frequent they could never long remain hid, and much more would be heard of them than is actually the case. In 1896, Mr. Manomohan Ghose. a Bengali lawyer of repute, drew up a memo-andum containing an account of 20 cases, which had come to his notice in the course of a long experience at the bar, and in which he alleged that injustice had resulted from the union in one officer of the judicial and executive functions. These instances were discussed by Sir Charles Elliott, formerly Lieutenant-Governor of Bengal, in an article in the Asiatic Quarterly Review for October 1896, and his analysis robs this ovidence of nearly the whole of its weight.

These then are the main objections which have been raised against the existing system. It may well be asked why, if these objections are groundless, has there been such unanimity in the opinions expressed by reformers. There are perhaps two reasons which are mainly responsible. Firstly, it is beyond question that the proposed separation would everywhere that the proposed separation would everywhere weaken the Collector's position, and thereby that of the British Raj; and secondly, those who desire the separation belong almost without exception to the class from which lawyers are most largely recruited. The separation would not merely provide innumerable att-pendiary billets, holders of which would have pendiary dillets, noncers of which would have to be recruited from among the lawyers, but an immense increase of litigation would also result. There is no doubt that over the greater part of India, the common people place a very

real confidence in the Magistracy, and this confidence is largely based on the wise and confidence is interest based on the wife and effective control exercised by Dietrict Magatrates over their subordinates. Nor is there any doubt that the common people would view with the most intense alarm any proposal which would render the magistracy independ.

The Indian Income-lax (Amendment)Act.—Section 18 of the Income-lax Act of 1880 enabled the Collector to invite a person chargeable to income tax to submit a return of his income, but it was optional with the person to make the return; and the non-compliance was not saddled with any penality. A new section (S. 14A) has accordingly been added to the Act, 168A, which enables the Collector to serve a written notice on a person requiring him to furnish a return setting forth the income accruing him during the preceding year. Failure to give the information is penalised with a fine which may amount to ten rupces for every day during which default in furnishing the return continues.

The Super-Tax Act.—The Super-tax, which is in the nature of an enhanced income-tax on large incomes, is leviced on a graduated scale. It leaves unfouched incomes inling below Rs. 50.000 a yrar which are only liable to pay the ordinary income-tax of one anna in the super. The first fifty thousand rupees of tamble income is jiable to one anna; the tecond fifty thousand, 1½ annas; the third fifty thousand 2 annas; the fourth fifty thousand 2 annas; the fourth fifty thousand 2 annas; the fourth fifty thousand income of the super-Tax of three annas in the super-Tax of the first income as has not been distributed in dividends or in payments to the members of the firm. The new provision embodied in S. 14A of the Indian Income-Tax Act (above referred to) is made applicable to the Super-Tax Act.

The Indian Bills of Exchange Amendment Act.—The only change which this Act purports to make is to introduce the words, "acceptance or "before the word "payment" in s. 2 of the Indian Bills of Exchange Act, 1916. The object is to excess delay in the Presentment for payment of Bills of Exchange payable outside British India when the delay in making such presentment is caused by circumstances arising out of the war.

The Indian Army (Amendment) Act.—A new section (62A) has been added to the Indian Army Act, 1911, whereby in the case of prisoners of war whose pay and allowances have been forfeited under S. 50 but in respect of whom remission has been made under S. 52, the authorities may make proper provision for any dependants of such person out of his pay and allowances. Secondly, when a person has been convicted by a Court-martial, the Officer commanding may parion him; or mitigate, remitor commute the punishment; or readmit him to the service when he is dismissed therefrom (S. 112).

The Indian Paper Currency (temporary smendment) Act.—As a war measure, this Act is enacted for temporary purpose. The maximum of reserve coin and bullion securities which stood at "one hundred and forty millions" has now been raised to "two hundred millions." The maximum of the said securities which are not securities of the Government of India is raised from "forty millions" to "one hundred millions".

The King of Oudh's Estate Validation Act.—It is a purely private Act meant to validate certain arrangements made by Government to administer the estate of the King of Oudh and certain trust funds appertaining the same.

The Freight (Railway and Inland Steam-Vessels) Act.—To meet the scheme of taxition laid down in the speech of the Financial member in presenting financial statement of the Government of India for 1917-18, it was found necessary to obtain as a war measure an additional revenue of about £500,000 from goods traffic. This Act is meant to give effect to the purpose; it is the fifth Act enacted levying extra taxes to meet the situation created by the war in this country. A tax of one pie is imposed on every railway maund of ceal, coke and fire-wood; while in, the case of all other goods, a general tax of two pies to a maund is levied. It is designed to be collected by means of a surcharge on ireight by the administration of the railway and the owners of inland steam vessels. Its existence is now made familiar by the additional small charge of "W, tax" on every goods receipt or bill of lading.

The Prevention of Cruelty to Animals (Amendment) Act.—Any legislative measure that tends to sileviate the sufferings of dumb creatures is beneficent in its purpose and is sure to command the approval of all men. The object of this Act is to suppress the barbarous practice of flaying goats portially, that is, the head and neck while the animal is still alive. If any person is found to be in possession of such a skin, he is liable to be punished with fine which may extend to one hundred rupees (S. 54). But it is very often difficult to establish the offence. A section, therefore, is added which creates a presumption of the offence aprised any person found in possession with the skin of a goat, with a partition of the skin of the head attached to it; and draws the presumption that the goat was killed in an unnecessarily cruel manner and that the person in possession of such skin had reason so to believe, until the contarts was proved.

The Indian Registration (Amendment) Act.—Whon a document has been presented for registration by a porson not only empowered to present it and has been registered, such registration has been declared by the Privy Council (Jambu Perthad v. Muhammad Afab All (17 Bom. L. B. 413) to be invalid. This Act adds a new Section (23A) to the Registration Act of 1908, whereby a person claiming under such a document may get it re-registered within four months from his first becoming aware that the registration was invalid.

The Patna University Act.—This Act deals with the incorporation of a new University at Patna. The Act first of all creates the University as a Corporation sole (8, 3). Its Chancellor shall be the Lieutenant-Governor of Bibar and Orissa for the time being. He is the bead of the University and shall when present preside at the convocation for conferring degrees. With him rests the decision whither a person

or the Syndicate (S. 5). The Vice-Chancellor is the head of the executive (S. 6). The Senate is to consist of members numbering from 60 to 75. Of these, fifty are to be elected by the bolles specified in the section; the rest to be silled up by nomination. Besides these, the Vice-Chancellor, the members of the Executive Council of the Lieutenant-Governor of Bihar and Orissa, the Chief Justice of the Patna High Court, the Bishop of Chota Nagpur, the Director of Public Instruction and the principals of all Colleges teaching up to a degree are ex-officio fellows. The powers of the Senate are defined in S. G. The Syndicate is to consist of 14 ordinary members, in addition to the following ex-officio members: the Vice-Chancellor; the Director of Public Instruction; and the principuls of the Patna and the Ravenshaw Col-leges (S. 8). The admission of educational institutions as Colleges is provided in S. 9. appointments to the University Staff are to be made by the Chancellor on the recommendation of the Syndicate and the Senate. (S. 12). rule-making power is given by S. 14. Schedules give the names of the ordinary fellows of the first Senate and the ordinary members of the first Syndicate.

The Government Savings Banks (Amendment) Act.—Before the passing of this Act, the Post Office used to ray Savings Banks Deposit of less than Bs. 1,000 in amount to the heirs of the deceased depositors without the formality of obtaining Probate, letters of administration or succession certificate. The limit of that amount is now increased to Rs. 2,000.

The Post Office Cash Certificates Act.—The Post Office Cash Certificates Issued as a part of the Indian War Loan of 1917 contain a printed direction: "Not transferable except with the permission of the Post-master General." This direction goes against the general law as to the transfer of actionable claims contained in S. 130 of the Transfer of Property Act of 1852. The prohibition as to transfer is therefore legalised. (S. 2). An exception has, however, been made in those cases where the Cash Certificates form port of the estates of deceased persons, in which case payment of the sum due on them may be made in the manner provided in the Government Savings Banks Act, 1873. (S. 2).

The Indian Faper Currency (Temporary Act.—The maximum limit for the Issue of currency notes against British Treasury Bills was fixed by Act XI of 1917 to 30 crores: it has now been raised to 42 crores (S. 2). Provision has also been made to legalise the Issue of currency notes of one rupee and two-and-half rupees (SS. 4, 5, 7 and 8). An amendment has been made in S. 19 of Act II of 1910, whereby the Gold reserve need not be confined to the gold builton held by the Secretary of State in the United Kingdom or the Government of India in India or in the course of transmission from the former to the latter, but may also include gold held in any of the British Dominions or in transit between a British Dominion and India.

The Transfer of Ships Restrictions Act.— where in India by a p The British Ships (Transfer Restriction) Act of "Gazette of India".

has been duly elected as a member of the Senate or the Syndicate (S. 5). The Vice-Chancellor is the head of the executive (S. 6). The Senate is to consist of members numbering from 60 to 75. Of these, fifty are to be elected by the bodies specified in the section; the rest to be filled up by nomination. Besides these, the vice-Chancellor, the members of the Executive (S. 6). Unlike other war legislation, this Act of the War and three years thereafter (ouncil of the Lieutenant-Governor of Bibar (S. 1 (2)).

The Indian Trusts Act (Amendment) Act— The Bombay Central Coop rative Bank, Limited, is the only Co-operative Bank in India, in which the Secretary of State for India in Council has guaranteed payment of interest at the rate of 4 Percent, perannum on theissue of debeniums up to the value of three times its paid-up share capital. These debeniums are included among the authorised securities by an anneadment in 8, 20 of the Indian Trusts Act, 1882.

The Gold (Import) Act.—This Act seeks to enact the provisions of the Gold (Import) Ordinance which was promulgated during an early part of the year as Ordinance III of 1917. Its main purpose is to enable Government to take possession of any gold imported into British India and such gold thereupon vests absolutely in His Majesty. The owner of the gold is to be paid at the rate fixed by the Governor-General in Connell.

The Presidency Small Cause Courts (Amendment) Act.—Not long ago the Government of Rombay had to recall an appointment whereby they had appointed a Vakil of the High Court to the acting Chief Judges-lip of the Presidency Small Causes Court in Bombay. The Presidency Small Causes Courts Act (XV of 1882) contained no provision to that effect. The disability attaching to the Vakils of the High Courts has now been removed. A Vakil or ar attorney of any Indian High Court is now cligible for that post, temporary or permanent.

The Repenling and Amending Act and The Sir Currimbboy Ebrahim Baronete, Act—These Acts have no general significance to merit a detailed notice here.

The Transfer of Property (Validating Act.—Originally this Act was introduced into the Council by a bill which was tray wide in its extent and scope. It was brought forward to undo the effect of the Privy Council decision in Shamu Patter v. Abdul Kndir (1-Bom. L. R. 1034), where it was held that the word "attested" in S. 59 of the Transfer of Property Act. 1882, means the witnessing of the actual execution of the document by the person purporting to execute it. The effect of this decision is negatived by enacting that when a attesting witness has not seen the executan signing the deed himself, his attestation will not be invalid if he has before attesting receive from the executant a personal acknowledgmen of his signature to the deed. The provision of this Act apply to deeds executed before the lat of January 1915. The Act extends in the first instance to the United Provinces of Agrand Oudh; but it is capable of extension else where in India by a notification published in the "Gazette of India".

Imperial Legislative Council.

The heer weeks raffin Innertal Lightative, The here exercises the Imperial Legislative. The Inland Steam Vessels Bill was tended in the year 1917 was held at Bethi on Introduced and passed. The Law Member 1918 Privates. The Victory opened the laid before the Council extrain amendments in Select with a somewhat detailed review of the miles for the conduct of legislative business. effect affaire. Expressing his confidence in Litter, the appeared for the further cosuperation of the freeze in excluding domestic differences the city of educations. Tauching upon the question of indentured labour, he gave fils reasons for refusing leave to introduce the Bill entirely For exactly have to intend the and choice for axish the assern which was proposed by Publit Madan Muhan Malasiya. He sald, the threating involved issues outside British India and the prepared Bill would prohibit any tenteration from India under agreement in any finitely beyond the sea other than Ceylon and Strafts Settlement, Government nere that sleeping user this matter. Special inquiries * to being made in Cylon and the Pederated Halay States and a conference of the interests the content of the content of the interest of the content of the c readings to cooperate in removing the features, of the preent system which were regarded of the preent system which were regarded as objectionable, ito-rement desired to acceler that the consideration of the report of the Public Services Commission as much as the possibly could, so that the redress of an a sole means of suppression. The motion the structure was not postponed and that the experience of the past few years demonstrated the futility of repression the posting relevances was not postponed and that the experience of the motion was rejected without discussion. Rao Baladur major questions among which the increased B. N. Sarma moved the following resolution: "That this Council recommends to the Governor of the most denoted in Council (a) that the cost of the of the Public Services was one of the most of the Public Services was one of the most important were not prejudiced or delayed. Government were considering the development of the constitution of India after the war, but if members studied the world position they would realled the intense pre-occupations of the littleth Cabluct. He announced that shortly a knew world war loom would be lessed in India for which he appealed for strong support. Referring to enemy intrigues in India he said the campaign of intrigue was absorbingly planned. the campaign of intrigue was inboriously planned and cartied out with such expense and determination had everywhere been folied. The Persian Government at one time sorely present by German intricue had throughout been assured that Great Britain was her best friend. As matters stood they had every reason to be satisfied with the political outlook. Turning catched with the political outlook. Turning to affairs in Mesopotamia he quoted the opinion of Sir Charles Monro that conditions were rapidly improving and the difficulties which arose in the cariler phases of the campaign had been gradually overcome. The health of the different degree of the care of the of the troops had improved in a marked degree and the army in Mesopotamia was now one of the best equipped of the many expeditionary forces serving in the field. It was proposed to make military service in India compulsory on all European British subjects between the ages of 18 and 41 whilst those between 41 and 50 would be compulsorly enrolled for local military service and youths between 16 and 18 for military training. They proposed also to enrol Indians in their own units for general military service in India for the duration of the war. The appointment of three representatives from India to attend the special War Conference in London marked a point in the history of 1 India which was the beginning of a new hapter 10 its history under the Imperial flag. of the troops had Improved in a marked degree hapter in its history under the Imperial flag.

which was referred to a Select Committee. The Education Member moved that the Bill to establish and incorporate the University of Pains be referred to a Select Committee. He dealt with the objections which had been raised to this Bill and assured members that Government did not propose to oppose alterations in the Bill. They were willing to consider any points which did not impair the efficiency of the organisation for the purpose for which it was to be created. The Bill was referred to a Select Committee.

The Council resumed its sitting on February

sth when Mr. Dadabhay moved the following resolution: "That this Council recommends to the Governor-General in Council that the whole question of Indian anarchism be thoroughly investigated immediately by a General in Council (a) that the cost of the construction of all new and original public works should be met from out of the capital account and not from the general revenues. and (b) that any saving in expenditure effected thereby he utilised towards primary education". He said, they should recognise the fact that they had to cut their coat according to their cloth. The revenues were limited and there were objects of a far more desirable character, for example, educational development and sanitation, which merited their first consideration,
The Hon. F. C. Rose pointed out the difficulties
in the way of accepting the proposal. Fundit
Madan Mohan Malaviya said, the country felt
that much more money had been put into bricks
and mortar and into stone and timber than should have been done; it felt that much more should have been spent on building up the human organisation on educating and developing the child, the school-boy and the school-girl than should have been put into brick buildings. The Hon. Sir Ibrahim Rahlintulla, whilst entirely sympathising with the main object of the mover that more money should be provided for the promotion of primary education, said that it appeared to him that the present time was very inopportune to have brought forward a direct recommendation of this character. a direct recommendation of this character. The desire to relieve the present generation by distributing the liability over a number of years and the question of their capacity to borrow capital had to be very seriously considered. If the resolution were pressed to a division he would vote against it. Mr. Bhupendranath Basu agreed with Sir Ibrahim liability. The Finance Member said the proposition was an abstract one in the present circumstances and he could not accept it. The circumstances and he could not accept it. The resolution was withdrawn,

to strengthen the position, powers and procedure of advisory committees in dealing with excise questions. He said the resolution did not ask for total prohibition or for complete abstinence. It simply asked for steps to be taken immediately towards effecting reforms towards that desirable end. It asked the Council in other words to see that the principle of local option was given practical effect to a larger extent than had been found possible in the past. The principles underlying this resolution and those which the Government of India and the public had in view had been absolutely identical, namely, to check the evil of drinking completely. Mr. E. C. H. Walsh said that considerable reduction had been effected in the number of licenses for the sale of intoxicants. Further extensive reductions were not possible without encouraging resort to lillest practices and the use of other more nexious stimulants. Dr. Tej Bahadur Sapru supported the Resolution and Mr. Bhupendranath Basu said the recommendations before the Council were not so revolutionary in character or so impracticable of being put into execution as not to deserve very careful consideration and in his opinion they were principles which could be put into practice without great difficulty. Khan Balantin Mark Mark Park dur Mian Muhammad Shaffi said the recommendations in his opinion needed no argument in their support. Pundit Madan Mohan Mala-viya and Mr. Rangaswamy Ayyengar agreed. Sir George Barnes maintained that the deve-lopment of the idea of local option could only follow on a healthy local opinion. He was afraid that in many parts of this country this opinion did not exist, and when a visorous public opinion naturally did not exist it was impossible to create it artificially. It would, he was convinced, be a mistake to force the pace, and indeed there was no reason to suppose that Local Governments were not moving as fast as they reasonably could. The resolution was put to the vote and was defeated, 15 voting for it and 42 against.

The Council met again on the 9th February when Pundit Madan Mohan Malaviya proposed that the rules for the conduct of legislative business should be amended so as to provide that the Council should meet at least once in overy quarter and once every week from December to March, Mr. M. B. Dadabhoy said he was entirely unconvinced as to the need for this alteration in their present arrangements. Mr. Wardlaw Milne said that it would be impossible for the commercial interests to obtain a representative who could arrange to spend one or two days each week throughout the four months of the year at Delhi. Khan Bahadur Mian Muhammad Shaffi said if this proposal was carried business men of experience and position as well as professional men of experience, ability and standing would be debarred from the opportunity of participating in the deli-berations of the Council. Sir Reginald Craddock, Home Member, said Government were prepared to consider the expediency of ap-proaching the Secretary of State with proposals which would have the effect of relaxing the

Rao Bahadur B. N. Sarma moved a resolution imore interesting and more productive but hi could not hold out a larger measure of comfort to the mover of the resolution and to these, who had agreed with him. The Resolution was negatived.

> The Council met again on the 10th Tebruary when Sir Reginald Craddock moved for leave of Cruelty to Animals Act for the purpose of punishing the horrible fashion of partially flaying goats alive. Mr. Thupendranath Basil welcomed the measure. He said it had been known to them for many years that the evil practice of flaying goats alive for the purpose of getting the whole skin had been prevalent in Bengal, Bihar and in other parts of India. He welcomed the measure because it would tend to render the commission of such a crimo more difficult. Mr. J. B. Wood introduced the King of Oudh's Estate Validation Bill. Mr. R. G. Lowndes presented the report of the Select Committee on the draft aincidments in the rules for the conduct of the Legislative Business of the Council and moved that the amendments as modified by the Select Committee be passed. Fundit Madan Mohan Malayiya and Mr. B. N. Sarma opposed the motion which was supported by Mr. Bhupendranath Basu and agreed to.

> Sir George Barnes, Member for Commerce, moved for leave to introduce a Bill to provide for the levy of an excise and customs duty of 6 annas a gallon on motor spirit. He said the measure was not intended for the purpose of raising revenue but to economise the use of petrol and to conserve the available supplies for military purposes. Whilst the consumption of petrol and benzine in India in 1915 was 44 million gallons they estimated the annual consumption now at somewhere near 7 million gallons per annum. The Bill was purely a war measure and as such it was passed at the mecting.

Rao Bahadur B. N. Sarma Garu moved that this Council recommends to the Governor-General in Council that the Madras Excise Revenue should be wholly provincialised. He urged that the burden of taxation, both Imperial and Local, was heavier in Madras than the average in India and that they were allowed to retain a disproportionately small portion of their revenues; that the whole surplus during the last twenty years might well be claimed to be their money; that the wealth, agricultural or commercial, of the Presidency did not warrant or justify the drain; and that the Presidency was economically poor. Mr. K. V. Rangaswamy Ayyengar supported the Resolution on the ground that excise should be a wholly provincial revenue. Mr. Srinivasa Shastri dwell upon the great needs of Madras. Sir Ibrahim Rahimtulia maintained that both in relation to the Madras Presidency and other parts of India the rate of taxation in Bombay was much higher. He maintained that until each province was made financially autonomous contributing on some equitable basis towards Imperial expenditure such demands would constantly be made on the Imperial Exchequer. restriction now imposed upon the Simia session Sir William Meyer, Finance Member, said the with a view to making that session perhaps motion practically amounted to asking for a

restring grant of til collion to be allocated service class, namely, between the ages of 41 to Madras attrough the Government of that and 50; and cadet companies of youths between Predictory had not acked for any such concertificages of 16 and 18. Active companies will be then. During the man conditions the Madras liable for service anywhere in India. Reserve Government to the theorems that expendit companies will be liable only to local service, the service and the liable of the liable fore, exclusive of cuttay from grants from the while cadet companies will be liable to military botermarat of India carmarked for special training only, purpose, from Res. 6.6 croses in 1011-12 to "All person Le. 74 cropes in 1917-18. The Resolution was prostuct.

The Coincil technical its sitting on the 21st Petrnary when His Excellency the Vicetor speke on the subject of the creation of the Indian Defence Force. He said: "In time of war velunteering is a broken read. The Government must have power to give orders and enforce them. This was impossible as the law stoot and two proper therefore the as the law stood, and no propose therefore the provisions of the Bill which will be placed before you. Mexcover, as things stood on the hards of voluntaring some men were offering their errviers, while others were getting off a rot-free. This was clearly inequitable; there must be equality of sacrinee. To secure this, "o propose compulsion for all coming under the dennition of European British subject. In these circumstances it was useless to spend money on a military force which was bound to by ineffective under the conditions and nature of its existence." The Commander-in-Chief introduced the fill and mentioned that the Secretary of State had indicated to the Government of India the lines on which India could render the greatest assistance to His Majesty's Soverment during the war. They were: Firstly, the release for service in the field of some of the units now employed in India on carrison duty, and their replacement by units locally recruited: Secondly, the development of local resources and industries with a view of local resources and industries with a ser-to rendering India more self-supporting as regards articles required by the troops in the field, thereby reducing demands from home and consequently releasing shipping urgently required elsewhere. The actual Defence Force Act is given under the Army Section (q. v.) so further details are not embodied here. We would only quote what the Commander-in-Chief said on the subject of the Indian Section of the Defence Force which is contained in the following passages:

"The Indian Defence Force will then come nto being. It will consist of certain units romposed of European British subjects between the ages of 16 and 50 who have been required ic enrol under the compulsory provisions of the Bill, and of a certain number of other units composed of non-European British subjects between the ages of 18 and 41 who have enrolled hemselves voluntarily. It is the intention of Government to retain the existing Volunteer organisation, but all existing corps, as well as any new corps or units that may be mised or constituted; will become corps or units of the Indian Defence Force.

"Corps of the Indian Defence Force will tormally consist of active companies, reserve companies and endet companies. Active companies will be composed of men of the general the utmost information was was corrice class, namely, between the ages of 18 man to give in such circumstand 41; reserve companies of men of the local you find newspapers saying that

" All persons entolled will be classified according to their physical fitness. There will be several categoris. One will consist of men fit for work in active companies, another of men At for work in reserve companes, another, again, of those who are unfit for either of these categories owing to temporary causes, but who may become eligible later. Lastly, there will be a category which will consist of those whose physical incapacity is permanent, and who are therefore of no military value." This measure therefore of no military value." This measure was contailly welcomed by all members of the Legislative Council and referred to a Select Committee.

Pundit Madan Mohan Malaviya presented the report of the Select Committee on the Bill further to smend the Transfer of Property Act of 1882. Mr. M. B. Dadebhoy moved the following resolution: "That this Council recommends to the Governor General in Council that the rules made under Section 2 (f) of the Defence of India (Criminal Law Amendment) Act, 1915, he revised so as to provide for the constitution in each province of special machinory to consider the cases of persons whose inovements or actions it is proposed to control under those rules." He said the resolution under those rules." He said the resolution had not been conceived in a spirit of opposition to Government: It was designed to make the working of the Act just and least irritating. The Resolution was supported by a considerable number of non-official members. The Home Member in replying said that the general disposition of the speeches "just been to take for granted that a large number at least of those whose liberty has been restricted are innecent and to take it for granted that action has been taken merely on the information of Police spies, or an other nucleoched and entirely unfested taken merely on the information of Police spies, or on other unchecked and entirely untested information. I will refer them to the Labore trials. The Labore trials showed exactly what has been taking place in the Punjab, and it is in the Punjab that a good number of such restrictions on liberty and internments in the villages, and so forth, have taken place. I will refer them also the Benares Conspiracy case, which shows that in other parts of India electrical warm unfilterlious of these consultations. also there were ramifications of these conspiracies. also there were ramifications of these conspiracies, and I will refer them to the speeches of His Excellency the Governor of Bengal. Now I do not think that there is any man in this country, any Provincial Governor, who has made more honest endeavours to take the public into confidence than His Excellency Lord Carmichael. He assured them that he had himself scrutinised the information that he had amiliable form sources on which he could releve that from sources on which he could rely; that he had entered upon the action that he had taken with the greatest hesitation and reluciance; he asked for their trust, he asked for their confidence, and, yet, after he had expressed his trust, and had given, I say, all the

Sharri proposed that the Budget Ino uncertain manner their desire to associate al by three labby representing roughly of the Simia exodus. The resolution diann.

med rat on the 20th March. The inv (Amendment) Bill, giving greater in dealing with rentences by Courisin dealing with reneases by counter was passed. The Finance Member I the Indian Paper Currency (Tem-mendment) Bill explaining that this emergency, enactment intended to give p to six months after the close of the the Ordinancewhich extended the the Council in dealing with invest-the Paper Currency Reserve. The Oudh's Estate Validation Bill was The Prevention of Cruelty to Animals ant) Bill star passed. The Freight and Inland Steam Vessel) Bill was The Indian Trusts (Amendment) introduced by Sir Farulthoy Currim-make the debentures of the Bombay Co-operative Rank trustee securities. Salved Nawab All Chaudhuri, Khan, proposed that necessary steps be taken a Bill for the establishment and Inion of a University at Dacen and duce it into the Council at an early The Education Member said that there ad been any intention on the part of nent to withdraw from the position. University at Dacca should be establishson as circumstances permitted. After breeze in which several members pro-against the mover being allowed to the action of various people without rtunity of replying to him in the Council, slution was withdrawn. Pundit Madan Majayiya moved a resolution that no hould be taken on the recommendation Public/Services Commission until reasonrunno/services Commission until reason-portudity had been given to the members. Council to bring forward resolutions subject. The Home Member gave a surance that the Legislative Council, have every opportunity of expressing pinicks on this subject. The resolution itherawn.

Council met on the 21st March, when hance Member presented the revised tes of the Budget. The effect of these dons was to raise the Imperial surplus by 1,000 and the Provincial surplus by D. As regards the budget for next year tellect of the changes was negligible. Madan Mohan Malayiya laid the report a Indian Registration (Amendment) n the table. Itao Bahadur B. N. Sarma sed that the Council should recommend of Governor-General in Council the urgent bility of encouraging boy scout move-among Indian students. The resolution accepted.

i Council met on the 23rd March when ceneral budget debate was taken up. As incd in previous issues of the Indian Year this is an omnibus debate and all the specithis is an omnibus debate and an incospeci-olits are dealt with in the special measures intforward. His Excellency the President in ig the debate said that it had been a notable in and that the members had every reason is gratified with it. They had signified in or material, which we found to exist.

India with the sacrifices which the Empire had had to make in connection with the war and he was glad to think that the Government of India in making their offer of £100 millions to the Imperial Government did not misinterpret the wienes of the Council. It remained with it to Loan. He read the following message from the Prime Minister of the United Kingdom:—

" I wish, on behalf of the British Government, to express to the Government and the people of India our most sincero gratitude for the magnificent contribution which India has just made to financing of the war. Coming in addition to the enthusiasm and loyalty manifested throughout India on the outbreak of war and to the invaluable military services since rendered by the Indian army, this gift is to u.g. a moving proof that India shares wholeheartedly with the other subjects of the Crown in the ideals for which we are fighting in this war. That India should come forward of her own accord at this crisis and render such real and opportune assistance is not only a source of sincere satisfaction to His Majesty's Government, but must produce a better mutual understanding among all the races and peoples under the British Crown."

The Council resumed its session on the 5th September when the Home Member made the following statement:—

"The Government of India are prepared to recommend the Government of Madras to remove the restrictions placed on Mrs. Besant and Messrs. Wadia and Arundale under the Defence of India rules, if the Government of India are satisfied that these persons will abstain from unconstitutional and violent methods of political agitation during the remainder of the war. In taking this course the Government of India are actuated by the confident hope that the recent announcement of His Majesty's Government and the approaching visit of Mr. Montagu to this country will have such a tran-quillizing effect on the political situation as to ensure the calm and dispassionate consideration of the difficult problems which are to be investigated during his stay in this country.

"The Government of India are prepared subject to the same conditions to take the same course in regard to other persons upon whom restrictions have been placed under these rules, merely by reason of their violent methods of political agitation."

His Excellency the President then made, a long speech in which he alluded to the loss sustained by the Council by the appointment of Mr. Buppendranath Basu and Sir P. D. Pattani to the India Office Council. Continuity he said the addition of the Council. ing, he said the polloy of the Government was divided under the following three main heads:-

First .- To secure that the services of the Indian Army should not go unrecognised or unrequited and that rewards to them should hold the foremost place.

Secondly.—That we should endeavour to remove any grievances, either sentimental.

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Thirdly.—That we should define the goal in India he will there mere there routheds of British rule in India and map out the route pleading with this question in leading to that roal.

He then touched upon the imponements rates of interest; which had been made in the condition of scribes in the Army and said that it was totended to in the annual and the churchion of the spec-ing Indian officers and it had been deed to to admit Indians to British commissions in Itle Majesty's Army.

With regard to the status of the Indiana in the Empire the Government policy was expressed in the following few heads:-

First, that the facilities for settlement accord-

Secondly, that facilities should be accorded to rejurned Indians stating the Colonies for travel and sludy as apart from settlement.

Thirdly, that Indians who have already been

their policy in respect of this matter. With regard to the second point he had invited Mr. Chamberlain to with India some time acc. Mr. Chamberlain was on the point of accepting this invitation when his resignation took place. Immediately on Mr. Montagu's accumption of office he expressed the hope that he would see his way to accept the invitation and the Cabinet had decided that he should accept. He mond that when Mr. Montagu arrived in India had should find a calm and dispassionate atmosphere and suggested policies carrially thought out and governed by sober arguments.

The Home Member introduced the Cincmategraph Bill for regulating exhibitions by means of elematographs. The Finance Mem-ber introduced a Fill to restrict the transfer-of Post Office Live-Year Cash Certificates and to provide for the payment of certificates standing in the names of deceased persons.
The Finance Member introduced the Indian
Paper Currency (Amendment) Bill with the
object of "continuing the Indian Paper Currency Amendment Ordinance, 1917, which was pro-mulgated in April last; for the extension of the provisions of the existing Paper Currency Act in order to permit of gold being held as part of the Paper Currency Reserve, when held

- 1. An amendment of the few bestler the
- a. A fan embodelt githe principles et feba te known ard mitam topes mi and
- 3. A millelving the Courts in redula in in a minguing the Control in separation famous a juicable powers to see the emission to several metal to several properties for and their photograph in and their famous beautiful to a second of the able for leaded my le-

"For masons into the detay, of which is it manners are to make at any rain at present the Government of Irelia land decided that the first book of the land of the ed to Indians should not be less advantageous the fluctument of Irdia lare decided has the to Indians should not be less advantageous that two remedit to the act of each than those allowed to robjects of other Oriental suitable nor likely by be in any way each analysis.

Secondly, that facilities should be accorded that the best clief or if any each lay in the internal in the contract of the contract the con the Contactive solution is beautiful to the contactive solution the solution is an account to the contactive to the cont

The Council property that on the Inthese tender when the district and the Contactal Luma IIII was continued. The Councillal Vender introduced a contact and another introduced. advance had been made in this most ment. Savings Bank. Act of the forces of enigration had been abolithed, being to increase the limit of each tracking and to constitutional reforms there decrees the limit of each tracking of an operation. He was glad to think that being to increase the limit of each tracking and to constitutional reforms there decreed depositors without there is negative of an operations (i) What is the goal of obtaining protate, betters of research and rule in India's and (2) What are the or succession certificates. The Here have the part of the read to that goal? The endows introduced the Presidency Small Garden's the Printle Rupine with tell-government was the appointed chief in figs. Mr. Muslim India to an His Majesty's Govern dured the Republic and Amende their policy in respect of this matter. With make amendments rendered necessary for the sir Curringless AT Inte Baroneter (Amendment) Bill was Iniobject being to clear up an obser original Act. Pundit Madan Moha The state moved the adoption of the report of -ristratic Committee to amend the Indian Roll (Amendment) Bill which was areal. (Amendment) Bill which was the Bulletton Member presented the Bulletton Member presented the State of Patan University Bill while found folly discussed under the section with the Universities (q c.) Khan Wian Muhammad Sham proposed a rectangle the beginning of the Bulletton and administrative to the beginning of the Bulletton and administrative to the beginning of the Bulletton and administrative to the bulletton and the b 1 . T in the Punjab be assimilated into that of the Province of Blaze and Origin. He said the principal polate of difference were that Dilar and Orica had a High Court and the o'scials were better paid. On this subject Sir were better paid. On this subject Sir Michael O'Dwyer Heutenant-Governor et the Punjah, mado a speech which was afterwards the subject of very considerable controversy. We therefore summarise it in some detail. Explaining the reasons which made him break the slience of four Fimla sessions he said: "In the first place I must contratulate the Hon. Mover on the elequence with which he has champloned the claims of the Punjab to a in order to permit of gold being near as pare has championed and chair at the system; of the Paper Currency Reserve, when held broader legislative and administrative system; by us or on our behalf in any of the British I congratulate him even more in spice of the Dominions, or in transit between a British criticisms which his Resolution has received Dominion and India in either direction; and on the eminently sine and practical manner for the Issue of Re. 1 and Rs. 21 notes. The Commerce Member introduced the Indian transfer of Ships Restriction Hill. The Home sense and gamity of judgment are unfortunately Member introduced the Usurious Loans Bill. In outlining the remedies for excessive usury qualities. They are also pre-eminently British

qualities, and it is the common possession of i those qualities—a heritage perhaps from the parent Aryan slock—that has led, over since the destinies of the two were united, to mutual comprehension, mutual confidence and mutual co-operation between the British Government co-operation between the British Government and the people of the Punjab. It is the fashion now a days in certain quarters to sneer at this mutual co-operation between the Government and the people. It is the fashion to picture the Government and the people as occupying hostile camps and to substitute adiation for co-operation. My own unhappy country furnishes a sad instance of what that policy has led to elsewhere. It should be a warning to us in India. In opening this session His Excellency the Viceroy appealed for mutual confidence and co-operation between the Government and the people in considering the problems before us. Let us see what that co-operation has already accomplished in the Punjab. Within 70 years it has raised the Punjab from one of the most backward and impoverished provinces of the Empire to one of the most prosperous and progressive. It enabled the Punjab to save India in the mutiny, and in the present war it has enabled the Puniab to achieve those splendid results not only for India but for the British Impire which we have heard recited to-day. With less than one-thirteenth of the population of the Indian Empire, the Punjab furnishes 60 per cent. of the Indian Army recuited in India. Though the drain on its manhood was ou per cent, of the Indian Army recruited in India. Though the drain on its manhood was already considerable at the outbreak of the war, it has responded to the King-Emperor's call with a promptness and a vigour which find no parallel in provinces that claim to be more no parantel in provinces that cannot be more advanced. Out of the 276,000 combatants recruited in India within the last three years, no less than 155,000 or nearly 60 per cent. were drawn from the Punjab—excluding some 40,000 non-combatants-leaving 120,000 among the remaining 200 millions of the Empire.

Turning to what had been done in other parts of India he pointed out "We should be parts of India he pointed out. We should be rlad if those who are so foud of basing poli-tical claims on the loyalty of India and the sacrifices of the Indian army—which is mainly a Punjab army—would show their loyalty to the King Emperor and their sympathy for the province which is bearing the burden of sacrifice, not by words, however eloquent, but in some practical form, for instance, by active help in the recruiting campaign in those provinces which have hitherto made such an imadequate response to the King Emperor's call. Again, while our men of the Punjab are rallying in their hundreds of thousands to the service of their King and country, we find politicians in other provinces—I am happy to think we have none such in the Punjah—actually dissuading their fellow-citizens from joining the Indian Defence Force."

In a further reference to the difference between the attitude of the Punjab and of other parts of India he said: "Take another aspect of the case. While the Punjab soldler is shedding his blood in three continents in gallant resistance to the King Emperor's enemies, we find he is receiving little recognition and ittle support from many of his fellow countrymen at home. And some of those gentlemen, forgetful of the security they owe to the British I have wearled the Council with this long

Navy and the British Indian Army, regardless of the terrible crisis through which the Empire is passing, callonsly discussing and even activety preaching the doctrine of passive resistance to the King Emperor's Government.

Some of those men have, I believe, taken an nath to be faithful and bear true allegiance to His Majesty the King Emperor. By what subtle reasoning they recordle their practice is a mystery which I will rot attempt to solve. Anyhow that conception of loyalty is not understood by us in the Puniab. The Punjab has no use even for passive loyalty, still less for passive resistance. I only hope that those who preach those pernicious doctrines elsewhere will be guided by the advice given by His Excellency at the last meeting, and at least in their own interests will see fit not to extend their propaganda to a Province where disjoyalty under ulintover name no may disroot. . . . The Punjab is not a Province of great wealth though thanks to the combined efforts of the administration and the propple it enjoys a high degree of agri-cultural prosperity based on our wonderful irrigation system. We have little or none of the great industries of the foreign trade, of the great estates which bulk so large in the wealth of other Provinces; and yet our contribution for exceeds those of Provinces to which we are much interior in wealth and population. In this respect the Punjab has given another instance of its self-sacrifice and loyalty. . . . Again take the matter of materials. The provision of foodstuffs for our millions of troops in the field and the millions of workers in the United Kingdom has been one of the most serious preoccupations of the war. In this respect India is rendering valuable assistance but I believe I am within the mark in saying that two-thirds of the food-stuffs exported from India—excluding Burma—are drawn from the Puniab.

"The Punjabi like the British is perhaps lacking in that mysterious quality known as spirituality. If you were to try and explain to him what it means he would probably shake his head and say no doubt it was an excellent thing, an admirable virtue something like charity and like charity often used to cover a multitude of sins.

" He might even go so far as to compare it "He might even go so far as to compare it in the latter respect with that equally varue term Home Rule, which many of our politicians propound as a legitimate and constitutional ideal while many of our revolutionaries have put it forward as the goal they have in view when attempting to subvert the King's View when attempting to subvert the high a Government by the sword, the pistol and the bomb. If any Hon'ble Member doubts the accuracy of this statement which I repeat with a full sense of responsibility, I would refer him to the evidence and the judicial findings in the various Punjab Conspiracy cases, I would refer him to the files of the Ghadr newspaper and I would also ask him to verify his facts before recklessly launching an accusation of reprehensible untruth against the author of the statement.".

In a final definition of the attitude of the Punjab he made the following remarks: "I fear

Korretary of State that, in case it be decided that a certain properties of the Indian Civil harries tollers recalled every year should In selected on the result of a competitive expeminutes tell for the jurpose in India, that appearing should be not bee than emobility of the total number of the poets included in the talm of the Indian Civil Service and not onefourth as recommended by the Public Services Commission." The prodution was prestived by 01 vote to 21.

Mr. Stirdynea Sheetri moved: "This Council treemmends to the Governor General in Council, that the Government of India do represent to the Secretary of State that the age limit for the Indian Civil Service examination should not be reduced as recommended by the Public Service Commission. The Home Member again emphasized the atilitide of Government and the resolution was withdrawn. Sir Hrahim Rahimilla moved the following resolution: "That this Council recommends to the Governor General in Council to give the required notice to the Managing Company of the East Indian to the Managing Company of the East Indian's Railway in accordance with the terms of the existing contract." The Commercial Member accepted the recolution which was adopted. Mr. M. A. Jinnah moved. "This Council recommends to the Governor-Scheral in Council recommends to the Governor-Scheral in Council recommends. that a mixed committee he appointed to examine the working of the Indian Railways Act and to make their recommendations at an early date. make their recommendations at an early date. The Commercial Member promised that the subject would be favourably considered at the close of the war and the re-olution was withdrawn. Mr. M. A. Jinnah proposed that "This Council recommends to the Governor General in Council that the constitution of the Central Recruiting Board be modified so as to recure at least two Indian representatives of British India on the Board. The Finance Mem-ber, as President of the Central Recruiting Board, pointed out that it was a central and co-ordinapointed out that it was a central and co-ordina-ting body, and in these circumstances he could not accept the resolution which was negatived by 33 votes to 18. Rao Bahadur B. K. Barma propesed "This Council recommends to the Governor General in Council that pending the settlement of a detailed scheme of post-war reforms the administrative approval of the Government of India to legislative measures relating to local self-government and primary clucation be withheld, and where sanction has been already given to recommend to local Governments the desirability of suspending further action with regard to such measures."

parameter to tail to the country General to Council. The religition was withdrawn. Bao Estador But the housement of 10th should some the U. & Parma moved: "This Council recommends to the housement in Council for the Council for the Line of State to account that the examples of State to account that the examples to the local state of state the first the local tending with a stage to extend the period for then for the Johns Citil Schools' will know the false will a sign to extend the period for firsts to the Johns and the life and its to extend the period for the Lord and the first to the Lord for the The Copyrish recognited on the 24th heptons, which they confit min, arm, equip and find ac-The Coupeil research led on the 24th September 1900 in the following the part of the following territors. This results for the following territors. This coupeil recommends to the Governor General in Coupeil recommends to the Government of India should more the Mark Studies which was subdefined that the Government of India should more the Mr. Schlages Shastif proposed: "This Coupeil Statement of the first that the case of the desired." recommends to the Governor General in Council that the Government of India do represent to the Secretary of State for India that no changes should be made in accordance with any of the recommendations of the Public Services Commission in the scale of salaries, or in the miles relating to the annuities fixed for members of the Indian Civil Service which would throw any additional burden on the revenues of India. The resolution was leaten by 20 votes to 17.

> The Council reassembled on the 26th Sentember when the Gold Import Bill was introduced providing for the acquisition by the Government of India of gold imported into British India. The Bill was passed. The Praddency Small Caure Courts Amendment Illi was passed. The Repealing and Amending Bill, and Sh Currimbhoy Ibrahim Baronetey (Amendment) Bill were passed. The Home Member intro-duced the Bill to amend the Code of Criminal Procedure and the Court-Pers Act. Pundit Madan Mohan Malaviya moved that the report of the Select Committee on the Bill further to amend the Transfer of Property Validation Bill be taken into consideration. The Bill was passed.

> His Excellency the President then closed the sexion in the following words: "Do not let us then be drawn aside by ephemeral incidents, which have lent themselves to misconstruction, from the great task which we all have in hand. Every interest and class will have an opportunity of putting their views before Mr. Montagu and mostle and provided these are Mr. Montagu and myrelf, and provided these are on-steat with the main principles of the policy formulated by His Majest's Government, they will receive sympathetic consideration. Let me assure these non-official Members who represent European commercial interests, in this Council, that these important interests will of Council, that these important interests will of course be fully considered. Everyone, I am sure, Indian and European allie, recognises the historic position of the British community in India, and the debt which India owes to its enterprise and its energy. And no scheme or reform which was sound could be based on injustice to the British or to any other community. We want all the best minds and the injustice to the British or to any other community. We want all the best minds and the co-operation of all classes of the community. I will not say more on this point, for does not the time itself appeal to us all, whatever our race, or creed or class, to co-operate in the spirit of Macaulay's lines:—

"Then none was for a party, Then all were for the State?"

Bombay Legislative Council.

the Hen. Mr. Cambled to a unit the review! District Le of Despite Act, 1841, 831 1-20 budget estimates. His statement showed provide the relieve Act, Inch. Each budget estimates. His statement showed provide time will out opposition, after believe expansion of revenue was the most sales similar in the Committee, The How M factory feature in the new index. Which was, V. J. Park provide the first proling of A lith revenue ludget was for the Thich, October to group for the reference, of primary educate the statement of the factor of primary educate the statement of the factor of the facto the revenue ladiest was not be raisely send for its groups for the extension of primary edd was estimated that the revenue would read cantomin the monitopatic fits building a decrease of highest sunder hampe of lakes, busined and force and by only trajected engineering housed at the laminerous under hampe of lakes, busined (lakes). Busined the form of lakes, busined (lakes). The position was strengthered of this contention in the Bill of this as a griff the (lakes), by the last that will not the expenditure of this contentions charge triangle by the execution to the built-half it decreased to all the total indirected for was less than the more than Be for to impress say charges on such resemble 188,00,000 would be spent. Thus instead of, it was explained that the part at year with a definit of its admittable before the recent is retire one constitution.

1917 was Its. 2,42,21,000.

provide for increasing the number of elective members on district local bounds and other matters." This was a Bill to make legislative provided for molifying the equationies of district for it leastly as circumstance a finit in accordance with the tecommendations of the committee recently appointed in the 14 mlay In sidency to report on the extension of heat relf-covernment. The Bill provides for the Increase of the proportion of elective members of such learns and the fermation of apoctal constituencies. It was framed to give early effect to such measures as need not be deferred profing the general revision of the Bombay.

Local Boards Act, 1881, which cannot be underlaked for the present. The Bill mit with largely occupied with the Hon, Mr. Public some opposition, though H. E. the Governor life in the Bombay Medical described it as a humble step forward along the path of local self-government. The Bill Bills were: Brelly, it was proposed to so after was read a first time. pending the general revision of the Rombay Local Boards Act, 18-1, which cannot be under-

Mr. Patel recommending the constitution of from 7 to 5 and by increasing the number of village panchayats in what areas and the lelected members from 6 to 5, secondly, to preand non-officials to suggest and advise Government on the necessary methods of detail to be
adopted. The subject again meant an extension of local self-government and generally
ment with the assent of non-official members

are qualified for the duties of a military artitant.

The point of view of Government and generally
are qualified for the duties of a military artitant. The point of view of Government was explained sureon, hospital assistant or sub-assistant by H. E. the Governor, who said that Governs are on should be elligible to be members of by H. E. the Governor, who said that Govern-the Medical Council; and thirtly, to make charment could not be expected to commit themhad received the report of Mr. Martin, an officer tions 7 and 8 of the Act." The Bill was thrown appointed some months previously to examine

The Council mer in Rombor in North School for District Manuelpel Act, 1841, And P found the current year with a denote of the paintile the clare lets the five deposite stately about the expected that the resemble found for the field. The dismitted field exceed the capsulation by the field exceeds the capsulation by the " Calling this to the opining lattice of the year H. H. the Consenue accord the Concil the he estimated clo line falance on 31st. March when the war see on or this question of course. this family edu after would have to be to The Hon. Mr. Contis introduced a fill the cloudy and compensation considered, Ti only by this Convenient tot all own fails.
Only it we educate one children. His Evelingreshi shall no be also to raise an educated joible opition without which a regated ministration is servering harding pd. When the Fill came teine the Council aesta in December clanie in bul teen derived and in city? ways it had been constructed and to the select commuter. User execut ameriments had been discussed this D.P.—the first non-field members Bul to be pared by any ci the Provincial Counciles was pared fato lay, the second reading having been carried by some to 2

The Council also consider I a resolution of allow for a larger proportion of elected members. Patel recommending the constitution of by reducing the number of nominated members of the meaning of the words "infamous conduct out by 24 votes to 20 after a long discussion.

Martin's investigation was preliminary to a Bill Government proposed to introduce extending greater self-governing powers to various bodies in the Presidency, including district discussion on this was continued at the October meeting. The Hon, Mr. E-siden said that in the proposed for the propo At the July meeting in Poona the Budget the mass of opinions asked for by the Government there was a proponderance in favour of Mr. Dadabhai Naoroji. The Bill to amend finally in 1912, the Government reconsidered

in 1916. They went through the whole question again and again, and in the course of this consideration and reconsideration an enormous number of opinions was recorded and there was a vast preponderance of opinion in favour of Balbodh. The resolution was carried by 18 votes to 17.

A considerable amount of time was devoted to a discussion of the rules for the conduct of business. In regard to Rule 21, which deals with select committees, an amendment recommended by the select committee provided that the member of the Executive Council, within whose province the subject matter of the Bill came, should invariably be a member of the select committee and that he should also be its chairman unless he chose not to be. The Hop, Mr. V. J. Patel moved an amendment that the member who introduced the Bill had a right to occupy this position of honour and should be ex-officio clustrman of the select committee. The advocates of this latter view put their case on the ground of prestige and equality, urging that they should not have less privileges in this matter than members of the Executive Council and that there should be no distinction between officials and nonbe no distinction between officials and non-officials. The Advocate-General appealed to the members to look at the matter from another point of view. He declared that the distinction in this case was being made not between officials and non-officials, but between members of the Executive Council, who were responsible for the good government of the Presidency, and who had to carry out the measures of the Council, and members who had no such responsibility. His Excellency the Government of the Presidency, should be revoked. This resolution and amends shillify. His Excellency the Governments of the were rejected. sibility. His Excellency the Governor endorsed ments to it were rejected.

the matter again in 1913, in 1915 and lastly this view and added that it was a sound business proposition that a member of the Executive Council, who had all the resources of the Secretariat at his command, was better qualified to be a chairman of the select committee than the introducer of the Bill who would not be able to put his case strongly before the Committee if he were chairman. On a division, Mr. Patel found himself in a minority and his amendment was lost.

Another amendment was moved to put Government bills on the same footing as private. members' bills in the matter of obtaining formal leave from the Council for the introduction of the same. The Advocate-General pointed out that this procedure was not necessary in the case of a Government bill, which was brought in after an elaborate inquiry. But that was not the case in regard to a private bill, which was apt to prove a very controversial one. However, even in the case of a private bill, he said, His Excellency the Governor could exercise his discretion and dispense with such special procedure, and, in fact, such discretion had been used in the case of two out of four private bills that had been brought in by private members. The amendment was lost.

As stated above, the Council met again in

Bengal Legislative Council.

The only important measure introduced in municipalities were already established in the Bengal Legislative Council was the Ghee nearly all places of an arban character and Bill, which was the outcome of a Marwari stated that the Government were establishing agitation against the adulteration of ghee. In many Union Committees for man communities, order to ensure a supply of pure ghee for the Seven resolutions were introduced with a view Durga pulas the Bill was hurriedly prepared to postponing the partition of Mymensingh and and was passed through all its stages on Sep. Midnapore and devoting the sum thus saved tember 4, in less than ap hour. The Actrenders to sanitation or educational purposes. Resolit an offence punishable by substantial fines to intions were also moved for the provision of manufacture sell or store give which is not hostels in various places and for the restablishmolty the product of cow's milk. The report ment of Mahomedan Colleges in Dacca and of the Committee appointed by the Bengal Calcutta. Lord Ronaldshay presided for the Government to inquire into the charges levied first time over the Legislative Council on March by the Calcutta Electric Supply Corporation 27 and was cordilly welcomed. At the meeting was presented and showed that the Committee, including the product of the Government of Bengal to Darjeeling be discontinued too too damit of a further reduction in the cost Est Henry Wheeler opposed the motion on the price per unit for lighting, deprecated any ground that the work of Government was done measure of coercion and rejected the proposal more effectively in the hills, that the cost was of a flat rate for lights and fans. Babu Ambles not disproportionate to the gain, and that the Charan Mazumdar moved a resolution in favour, migration did not involve the separation of the of an increase of municipalities. This was Government from the affairs of the Province, opposed by Sir Shamsul Huda who said that opposed by Sir Shamsul Huda who said that

The United Provinces Legislative Council.

At the meeting of the Legislative Council at Lucknow on 29th January the Lieutenant- extra cost itself. The metion was lost by Governor explained his connexion with Mr. twelve votes to twenty-one. Lionel Curtis and the work of the Round Table group and remarked that there was no consgroup and remarked that there was no conspiracy of any kind. His Honour said that the Government of India was of opinion, and he agreed with the Government, that Government officials should take no part in the work of the "Round Table." The Hon'ble Mr. Maris also made a personal explanation and accepted what His Honour had said. The Oudh Courts Amendment Bill was passed. The Government accepted, with certain minor reservations, a resolution relating to the appointment "as an experiment. of non-official chair. ment "as an experiment, of non-official chairmen of district boards in some of the districts the United Provinces."

Council met again on 26th February, aen Mr. Chintamani moved that paragraph 43 A (b) of the Manual of Government orders relating to the appointment of subordinate judges and muncils by recruitment, be amended so as to require of candidates a capacity to read and write Hindi in the Nagri character and not only Hindustani (Urdu) in the Persian character. The mover said that a knowledge of Hindi was required in the case of deputy collectors and he maintained that the convenience of a large number of people would be met if judicial officers were required to possess a knowledge of Hindi. Nawab Abdul Majid, in opposing the resolution, said its only object appeared to be a desire to keep alive the old Hindu-Moslem controversy. Urdu was the Hingua france of the country and the Mohamedans would oppose every effort to prejudice uen Mr. Chintamani moved that paragraph dans would oppose every effort to prejudice its position, particularly when there was no ground for attacking it. The Hon'ble Mr. Burn, on behalf of the Government, said that up to 1837 the language of these provinces had been Persian. Hindustani was then prescribed as the vernacular, and to this day there had never been any alteration made either by the Government or the High Court. He had consulted several authorities regarding the relative difficulty of deciphering the Persian the relative difficulty of deciphering the Persian and the Nagri character, and the general opinion was that Nagri presented the greater difficulty. Sevenci Moslem members having opposed the resolution, Mr. Chintamani, in reply, said he did not think many of the remarks made were relevant to the debate. He regretted the heat imported into the debate as he did not think there was any reason for it. He would have withdrawn the resolution it there were any strong reasons expressed against it, but as that was not the case, he would not do so. The motion was put to the Council and lost. Council and lost.

Mr. Chintamani moved that these provinces would not be able to bear the increased cost of administration that would be entailed by the recommendations of the Public Services Commission. The President explained that the local Government could not go to the Government and the public services. recommendations of the Public Services Comnission. The President explained that the
local Government could not go to the Government of India with such a protest, as there was
no ground for believing that the U. P. would
be saddled with the extra charges even if the
British Government would move faster than
recommendations were given effect to. The

twelve votes to twenty-one.

At the meeting on the 27th February the Government accepted a resolution by Mr. Chintamani that no sub-divisions or tabilis in any district would be abolished or their areas redistributed without previous publication of macera relating theorets. papers relating thereto.

In introducing the Revised Financial State ment, on 18th March, Mr. Pim said that the actual receipts of 1016-1017 were much better than anticipated. The original estimates provided for an increase of 676 lakhs and an outlay of 680 lakhs but the state of 680 lakhs. of 630 lakhs, but the revised totals had the effect of raising the income to 692 lakhs, while the expenditure was 675 lakhs. The improvement was attributed to a good monsoon, active trade, easier prices and the excellent prospects of the rabi harvest. The Budget for 1917-18 placed the income at 695 lakhs and the expenditure at the same form. diture at the same figure. Further increases were expected under the heads of excise, stamps and land revenue, but there would be a conand land revenue, but there would be a considerable decline under receipts from irrigation—the results of the smaller demand for water. A new grant of 4½ lakhs recurring had been made for the training of teachers, and the Government of India had just announced a grant of 2½ lakhs to the province for agricultural improvements, the proceeds of the wheat scheme. A number of resolutions were moved by non-official members asking for reductions in the Police, Forest and other budgets, and the transfer of the amounts to education. The motions were lost.

At the meeting on 2nd April, Mr. Holms presiding, the Oudh Settled Estates Bill was discussed and passed. The United Provinces discussed and passed. The United Provinces Medical Bill, the effect of which will be to give the U. P. Medical Council a larger number of elected members than any other council in India, was taken into consideration. Mr. Chintamani, in supporting the measure, bore testimony to the generous spirit in which the official members of the select committee had met their wishes and said the Bill, when passed, met their wishes, and said the Bill, when passed, would go before the country as the best Medical Act that any Provincial Council had passed. After some minor amendments the Bill was adopted and passed.

On 3rd April the Budget for 1917-16 was presented. Pandlt Gokcran Nath Misra moved that the Council recommend to the Lieutenant-Governor that at least two posts of superintendents of police be filled by promotion thereto of deputy superintendents, that is to say, of Indians. After a debate, in the course of which the Government promised to appoint one deputy superintendent to be a superintendent, the resolution was put to discussion and carried by 19 votes to 17.

inittee, he said unless fuller use was made of the destrability of legislation for the purpose of it, it must be called a failure. Lala Madhusudan Jyan reterred to the backwardness of these provinces in education. Mr. Sami Ullah Beg in hought the money spent on education was to the vote and carried. Inadequate and much more rapid progress was treently necessary. His Honour Mr. Holms, in winding up the detate, associated himself with what had been said of Mr. Plm's work as Tinancial Secretary and repeated Mr. Plm's work as Trinancial Secretary and repeated Mr. Plm's work as to the Lieutenant-Governor (1) to limit the durance that the suggestions made in the Tal to three months in the year and (2) to debate would receive consideration. Dyal referred to the backwardness of these debate would receive consideration.

At the meeting on 17th July, the Raja of Jehangirabad welcomed Sir James Meston on his return to the province after his trip to England of the system. The resol to represent India at the Imperial War Cabinet ten for and twenty against. and the Imperial Conference. His Honour in a speech referred to the two great Councils and explained briefly what was India's share the Outh Courts (American India's share the Outh Courts (American India's India's

The Council met again on 18th July, when Mr. Chintamani's resolution for an inquiry into certain alleged gricvances of Indian students nt Roorkee College was withdrawn after a lengthy debate. Lala Madhusudan Dyal's resolution urging an expression of Government's atrong disapproval of the letter addressed recently by Mr. Stubbs, Collector of Bijnor,

enabling municipal boards to make primary education compulsory in municipalities. The

Tal to three months in the year and (2) to direct that heads of departments shall not migrate to the hills. Mr. O'Donnell opposed the resolution and pointed out the advantages of the system. The resolution was lost by

in their work and what they offered to India of which was to provide that not less than balf in return. Several resolutions were moved and lost. profession. The measure was opposed by Government and on a division was lost by 22 votes to 12. Mr. Chintamani next moved for leave to introduce the Oudh Civil Courts (Amendment) Bill to provide that the appointment of Judicial Commissioner in Oudh should he reserved for a barrister. The motion, after discussion, was lost by 22 votes to 11. Among to some Valshya gentlemen of that district of other recolutions moved by Mr. Chintamani regarding subscriptions to the War Loan was one urging the Government to adopt a put to the vote and lost by 21 votes to 9. vigorous policy to check the ravages of plague during the expected epidemic. Colonel Mariag-At a meeting at Naini Tal on 1st October gart said they were doing everything possible.

Munchi Narayan Prasad Asthana moved that As a matter of fact money set apart by Governa lilli empowering municipal boards to introduce ment for lighting plague was lying idle because free and computery education in municipal the people did not choose to ask for it. If areas he brought forward. Mr. Keane suggests anybody proposed a practical scheme on behalf cel as an amendment that a committee of the 10 of the people, the Government would be happy members of Council be appointed to consider to consider it. The Council adjourned size dis.

Punjab Legislative Council.

current year.

A resolution by the Hon. Bakshi Sohan Lal proposing the establishment of an Executive Council for the Punjab at the close of the war was carried, the Local Government neither opposing nor supporting it. The Government also observed a similar attitude of neutrality with regard to a resolution moved by the Hon. Mr. Farl Hussain, recommending that the representative of Punjab Mahomedans in the Supreme Legislative Council be elected and not nominated, and the resolution was carried, the Hindu members also not voting.

At the meeting held on April 24th, a resolution proposing that thirty years should be the ordi-nary term for land revenue settlements in the Punjab was keenly discussed, Ills Honour the Lieutenant Governor refuting the argument that Native States had long terms, and emphasising the fact that the selling value of land in the Punjab was three times that of other provinces. Government's offer to accept the resolution, if modified by excluding districts not fully developed, not having ben accepted, the resolution was lost by the Chairman's casting vote, 13 voting for and 13 against the motion. The detate on the Budget which as a "prosperity budget" was the subject of nulversal congratulation to the l'inance Member was resumed. The second Bill which passed into lancon the following day. The Lleutenant Govers at affording facilities in the matter of house on the following day. nor in his summing up said that the income was accommodation in Simila to the Government Bs. 38 lakis above and the expenditure Bs. 10 for the purposes of the war and as such was lakis below what was anticipated, the year, purely a war measure. The Hon. Mr. Lunaden, closing with a handsome surplus of Rs. 103, the mover, explained the necessity for Governlaks, instead of Rs. 55 lakis estimated. laks, instead of Rs. 55 lakhs estimated. lake, instead of 16, 35 mans estimated. For the coming year Government had boldy budgetted for an income of Rs, 515 lakhs and an expenditure of Rs, 510 lakhs, leaving a clo-ing plasme-tenants were to be kept out the transit plasme of Rs, 106 lakhs. Arms and agriculture, of that year were exempted, whether they are the little of the litt said His Honour, must be the Punjab's main industries. Agricultural improvements were receliving every attention and a determined effort
was contemplated to reconcile education and
agriculture. Referring to the political situation
which he had discussed at last year's council,
Sir Michael O'Dwyer said that in the three
districts of the south-west Punjab in which
serious disorders were caused two years ago,
pace and harmony now reigned. There had
proceed the problem of the pulling process.

The delate on
the Bill was moderate in tone and sympathetic
measure said that he situation
that Government had to appeal to the Chief
and other public spirited persons to lead their
houses for military purposes.
The pulling process of Simila, who, in turn, would not smer,
inverse of Simila on duty or not. The delate on
the Bill was moderate in tone and sympathetic
that Government had to appeal to the foliar
that Government had to appeal to the foliar
houses for military purposes.
The pulling that he had also were recethe Bill was moderate in tone and sympathetic
that Government had to appeal to the Chief
and other public spirited persons to lead their
houses for military purposes.
The pulling the house for military purposes.
Th nipped in the bud last year. He condemned the ing, motion was one advocating the use of Unia Home, thuis promeanly and condemned the ing, motion was one advocating the use of English Home Rule propaganda and pointed out the lin the Council proceedings instead of English significance of the fact that the watchword the case for which was put by the Hom. of the fluad conspiracy on the Pacific coast Syad Makhdum Rajan Shah and as stratuced was also Swaraj. His Honour also appealed opposed by the majority of the members, both for more recruits and larger support for the others and opposed by the majority of the members, but was fluid and any stratum of the country and fluid the Punjab has since been been been a support for the others and considerable the punjab has since been been been a support for the others and considerable the punjab has since been been been been a support to the others and considerable the punjable that war loan to which the Punjab has since been some reply summed up the objections to the the third largest contributor in India,

6th was the passing of the Punjab Vaccination trunslators, and their high charges, the general Law (Amendment) lill which was both simple preference among Indians for the Lawlid and non-contentions. It extends the benefits in dium in courts and elsewhere and law of the Act of 1850 to not lived area. and non-contentious. It extends the benefits of the Act of 1850 to notified areas, which were not in raisence at the time of the original Act to other practical disabuntages. He had less and which were anxious to apply the Act to themselves in the same way as Municipalities. In this connection it was stated by the mover it out in the connection it was stated by the mover it out for any desired that the tribino line. Mr. Lumsden, that this year Govern-compiled with. The resolution was left in most were providing model forms to assist within formal states against it.

pared with the revised estimates of the municipalities to frame bye-laws to meet los requirements. Two resolutions were proposedone on the improvement of primary auditivities which was carried unanimously, the other urging that the Labore Medical College F. fessorships should not be restricted to the India Medical Service. The proposal in an amenda-form was carried, official members not voting.

A special meeting of the Council was also December 21st at which two bills were brough forward, one for restricting the movements c habitual offenders in the Punjab and for requiria: them to report themselves (this was referred to a select committee) and the other for regulating the rents and occupation of houses in Sindia during the period of the war (passed). The first of these Bills proposed a new departur, in conformity with special measures infiated by the local government since January to control criminal tribes. The Hon, Mr. Crafk, the mover showed how the security provisions of the indian Pensi Code provided no effective of Indian Pensi Code provided no effective of Indian Pensis Code provided no effective of Indian Pensis Code provided no effective of Indiana Code provided no effective of Indian practical method of dealing with habitual offenders. The Bill was drafted two years ago and received with a chorus of approval both as regards its principles and its details and was amended in the light of the opinions of the Government of India and the official as well as non-official members of this Council.

The second Bill which passed into law aimed For ment loterference as well as the latitude provided for its operation, the rents fixed being proposal on the score of the difficulty of kee Flui records of the proceedings in the absence of The chief business at the meeting on November, system of Urdu elepthand, the panelty of government the meeting of the Post the panelty of government to the panelty of the

out of the province. The opening up of new roads was being pushed on and fourteen lakhs had been provided for this purpose in two years. The cultivation of rubber and the colonisation of waste lands had been encouraged ! by Government aid. The Burma University had been advanced and a beginning would probably be made with the ad interim scheme in the near future. Educational finance had been simplified, Divisional School Boards had hen created and the policy of making educa-tion more practical had been continuously followed. His Honour referred to the overcrowding of jalls owing to the steady rise in the jall population as compared with other provinces in India. Experiments had been started to employ prisoners on outside work and a scheme had been drawn up for industrial and agricultural colonies to receive certain classes of prisoners during the latter portion of their sentences. He concluded: "The question of future finance has been engaging my attention, but I must leave it to my successor to deal with. I should like, however, to record my opinion that Burma is at a great disadvantage in regard to other provin-

cer in having had its financial settlemen fixed at a time before the main building of the Province and the roads had been made. The hulldings of Borma, outsil Rangoon and one or two hendquarter stations would be regarded as a scandal and a disgree in any other province in India. As for the roads, what roads do exist are good, and goo roads can be made in most parts of the Pro vince; but in regard to road communication Buring is infinitely the worst provided province in India. It is quite clear that money spen in Burina will be productive of a quick return It is quite clearate othat money cannot be found from Provincial revenue. I myself consider that Burna has a strong claim on the revenue of the Imperial Government, and I do not hesitate to say that if the Imperial Government are not able to make graints to Burna, Burna can advance by borrowing the money in the open market for its communications. greater part of the Municipal improvement of the Empire has been done on loans secund and repaid by a sinking fund, and this method of finance appears to me to be peculiarly suitable to the conditions of the problem in Burna.

Bihar and Orissa Legislative Council.

During the year 1917 only one Act was passed appointing a Committee to discuss amendments

provincial measures.
One other Bill was introduced, the Champaran Agrarian Bill, as a result of the report of tee the Committee of Inquiry into the relations existing between landlords and tenants in that district, a measure which can hardly be described as non-contentious, and which has provoked a considerable stir in Tirhut. Briefly it is designed to stop the tinkathia system for the cultivation of indigo, under which the planter could insist that a certain proportion of a tenant's helding should be sown with indigo. It relieves the tenant of any liability to grow any specified crop and also empowers the Collector to take summary action in recard to the lovy of salamis district, a measure which can hardly be described summary action in regard to the lovy of salamis

as passed, which provides merely for an Government. The Mover confessed that no macramining authority, and alters but slightly the not made himself acquainted with the proceed-existing arrangements for University education, ings of the Council in 1914, when a similar It includes a provision for a salaried Vice-resolution was moved by the late Rai Seo Chancellor. Of the five meetings of the Legislander Sahai Bahadur, as representing one of lative Council during the wear three wear major. connection. Of the five investings of the registrative Council during the year three were mainly concerned with the introduction and subsequent debates on the Financial Statement.

Seven resolutions were moved two of which drawn...

by the Legislative Council of Bihar and Orisa, the General Clauses Act, a purely formal and technical measure designed to give the new transfer of the Local Scit-government and take stops to further a system of commercial clauses. existing educational institutions of the Province existing educational institutions of the Province were accepted. The suggestion that a Committee should be appointed to examine the amendment of the Bengal Municipal Act was withdrawn as the Amending Bill had been propared and was to be circulated for criticism. Two resolutions dealt with the provision of funds for the appointment of a Superintendent of Sanskrit Studies, and the provision of quarters for the clerks of the Regard of Expense in ters for the clerks of the Board of Bevenue in Patna. Both were withdrawn on assurances being given that the proposal would receive early consideration. A resolution that a Committee should be appointed to discuss the amendment of the Chota Nagpur Tenancy Act was also withdrawn when it was pointed out that reports had been invited from local officers on the working of these targets. The Hop, Babu summary action in regard to the levy of salamis or the exaction of any payment other than the recorded rent. The Bill is chiefly criticised as being in fact an example of expest factor as being in fact an example of expest factor as particular class in a corner application to a particular class in a corner to the province, while the revenue administration of the Santal Pargans should be thought into line with that prevailing in other demonstrated the need of legislation for the demonstrated throughout the province. demonstrated the need of legislation for the relief of tenants throughout the province.

Another Bill, which provoked considerable opposition, was introduced in the Imperial Rev. Dr. Campbell, a missionary who has Council. The Patna University Bill as indevented his life to work amongst the Santals, toduced was a very different measure to the Act as passed, which provides merely for an Government. The Mover contessed that he had examining authority, and alters but, allerity that but, made bimself acquainted with the proceedthe landlords in the Santal Parganas, and was withdrawn. Similarly on this occasion the proposal met with little support and was with-

We regret that no summary of the Madras Legislative Council has been received from our Madras correspondent.

The Indian National Congress.

The following record of the early work of the Congress is written by the Hon. Sir Dinshah forence. Unfortunately, when the prepara-Wacha:—The Congress was practically founded tions were being made choices broke out in the in 1885 by the late Mr. Allan Octavian Hume, a retired member of the Indian Civil Service, and the ron of the distinguished Joseph Hume, M.P., whose radicalism is so well known and who was one of the chief advocates of Retruchment and Reform in the House of Commons in the forties or fittles. Mr. Hume had Commons in the forties or littles. Mr. Hume had a distinguished carcer in the service. In his younger days when Collector and Magistrate at Litawali, he had rendered invaluable service in quelling the Mutiny in its incipient stage. For this service he was created a Civil Companion of the Bath, a rare honour in those days for a from the service in 1883 after having honour-ably filled several high offices, the last of which was the Home Secretaryship of the Government of India, The policy of Lord Lytton's Government (1873-80) had aroused discontent in the country. The imposition of the Vernacular Press Act, commonly known as the Black Act, and the uncalled for hostilities with the Artis Shop Ali of Afghapitan which called the Amir Shere All of Afghanistan which culmi-nated in the Second Afghan War were the subject of much adverse criticism among the most moderate but enlightened Indians in all parts of the country. It was recognised in all quarters that the people should organise themselves by way of a conference to ventilate their grievances. Correspondence was passing among the Indian leaders of thought in the different provinces as to the formation of such a con-ference on a sound and permanent footing. The viceroyalty of Lord Ripon (1880-84) gave the necessary stimulus and encouragement. Thus by 1883, when Mr. Hume retired, the idea of the Conference had so far taken body and form that, with the sympathetic support of Mr. Rume, a Union was established after he had in 1883 the genuine support of many sterling friends of India in Parliament, especially John Bright and Mr. Stagg. Mr. Hume had been a silent but watchful observer of events and felt that he must give his active support to the movement, his heart being fully prepared to ameliorate the social, economical and politi-cal condition of the Indians. He was in close communication with the leaders in various communication with the leaders in various provinces. Here it may also be worth while recording the fact that during the preliminary stage of the inception of the Congress, Mr. Hume, who had retired to Simla, had had the opportunity of consulting Lord Dufferin on the subject and it is a fact that His Lordship was at one with the object and greatly encouraged Mr. Hume in his mission. Subsequently aged Mr. Hume in his mission. Subsequently after 1888 His Lordship, for reasons of his own, which have never been authoritatively declared, chose to assume a hostile attitude towards the organisation but it was effectually met by the speech which Mr. George Yule made in December 1888 at the Congress of Allahabad.

City of Poons and it was deemed unsafe to invite delegates there. Accordingly the seat of the first assembly was hurriedly transferred to Bombay under the auspices of the Bombay Presidency Association, with its then active honorary secretaries, Messis. Pherozeshah M. Mehta, Kashinath Trimbuk Telang and Dinsin Edulfi Wacha. It was at the same time resolved to christen it. "The Indian National Congress," having regard to the fact that its principal aim was faithfully to celo the public public of all India So many misleading. opinion of all India. So many misleading statements were made during the carliest years of the Congress as to its alms and objects that it may be useful to relate what they are that it may be useful to relate what they are as laid down by Mr. Hume himself in a speech he made at Allahabad in 1888, on the eve of the session of the Fourth Congress at that centre. Firstly, he prefaced his enumeration of the objects by stating that "no movement in modern histograph times has appropriated." modern historical times has ever acquired, in so short a period, such an appreciable hold on so short a period, such an appreciable hold on the minds of India, none has ever promised such wide reaching and beneficent results." Further on, it was observed that "the Congress movement is only one outcome, though at the moment the most prominent and tangible, of the labours of a body of cultured men, mostly born natives of India, who some years ago banded themselves together to labour silently for the good of India." As to the fundamental principles of the Congress they

Pirally, the fusion into one national whole of all the different and discordant elements that constitute the population of India;

Secondly, the gradual regeneration along all lines, mental, moral, social and political of the nation thus evolved; and,

Thirdly, the consolidation of union between England and India by securing the modifica-tion of such of the conditions as may be unjust or injurious to the latter country.

The Split.

It was on the fundamental principles above stated that the Congress carried out its appointed work midst much misrepresentation, obloquy and oven abuse, till 1907 when an extreme faction of delegates deliberately choice to raise a split in the united camp. At the Congress held in Surat in that wear the session had to be abandoned owing to the violent outbreak of the factional spirit of those who since have been the factional splrit of those who since have been known as "Extermists," in contrast with the overwhelming majority of those entertaining sober views who are called "Moderates;" but if the proceedings were for the time aban-doned, it was not without the leading men immediately organising themselves on the spot to take ways and means for the bolding Picst Session.

Progress was so far made as to formulate the programmue of a first meeting in Poona most important part was the creed of the which at the time was the seat of great political Congress. In other words, the unwritten aims activity. The Christmas week of 1835 was and objects of the Congress were reduced to

writing in a crystallical form. As such it may have come to as many as 10,000. That we be repeated here, as it should dispel all doubts, the number which congressed in Bombay it mismaker or mismaker andings of the true 1880 when Sir William Wedderburn preside

nims and objects of the Congress.

"The objects of the Congress are the attalnment by the people of India of a system of Government similar to that enjoyed by the reflexivering members of the British Empire, and a participation by them in the rights and responsibilities of the Empire on equal terms with these members. These objects are to be achieved by constitutional means by bringing about a steady reform of the existing system of administration and by promoting national unity, fostering public spirit and developing and organising to intellectual, moral, economic and industrial resources of the country."

Introduced the first feform Bill of the expendence Introduced to Bas in Partitional 1850 Beight to and to pay a few of Introduced the first feform Bill of the expendence Introduced the first fever had also to pay a few of the first ferious Bill of the expendence Introduced the first fever had a few of the first first first first first fever had a few of the first f Congress are the attainment by the people of introduced the first Reform Bill of the expender resources of the country.

Every delegate to the National Congress is obliged by the Congress Committee of the

leaders selected by each province and annually every week in India. As such it performs the President, Ex-Presidents, Secretaries and liberally circulated among members of Parliaments of the Congress by useful service. It is well informed and is other office-heart annual content of the Congress and liberally circulated among members of Parliaments. other office-bearers are nominated ex-oficio members and the whole Committee is known by the name of the All India Congress Comwittee. The provinces are the same as the territorial divisions of the Gov mment of India. The Committee of each Province is called the Provincial Congress Committee on whom devolves the duty, under the constitu-tion and the rules, of calling meetings for the election of delegates, suggesting subjects to be brought forward for the consideration of the Congress and all cognate matters. The Congress congress and ail cognate matters. The Congress in the House of Commons on Indian ansim declares each year at the close of the session and often helps frembers to put questions where the next Congress is to be held. The town or city where it is to be held begins to standing committee of members of the House make all preparations fully six months before of Commons and an attempt is about to be the date of the holding of the session which made to revive it. The Committee also keeps has hitherto invariably been during the three fiself in communication with the India Office days immediately succeeding Christmas and often acts as a vehicle of conveying Indian Day. That period is specially selected owing the three contracts of State, As such days immediately succeeding Christmas and often acts as a vehicle of conveying and often acts as a vehicle of conveying as such Day. That period is specially selected owing opinion to the Secretary of State. As such to the great convenience it affords to all classes the organisation renders valuable service to of delegates in the country to attend—a con-venience not offered at any other time during a year. A Reception Committee is formed with a leading person as its Chairman. That For some years following 1904 without Committee divides its work among various made to heal the split and these were without sub-committees such as finance, corresponding avail until 1916 when a re-united Congress met at Lucknow under the presidency of Balu dence, housing, feeding and so on. A hand at Lucknow under the presidency of Rabu of active young persons colunteer to serve Ambien Charan Muzumdar of Faridamy in Benthe different diverent sub-committees. they were chiefly solceted from among the student class but owing to the orders of Government in the Education Department, that Formerly. students should take no active part in polities, volunteers are now wholly recruited from the circle of men of business or profession. Apart rom the delegates who generally number from 500 as a minimum to 1,000 or so as a maximum there is always a large number of visitors. So that the pendal is erected to contain at east 5,000 seats There have been some the Federal Council like the colonics of the Emnotable Congresses when the number seated pire.

frees. and was accompanied from London by the Indian National late Mr. Charles Bradlaugh who afterward indeed.

British Committee.

province from which he is sent to express in the writing his acceptances of the above cred congress has an organisation also in London and his willingness to abide by the Constitution which is called the British Committee of the writing his acceptances of the above cred congress has an organisation also in London and the rules framed under it.

This Constitution has been in full working legislating the British Congress. It has an organisation also in London which is called the British Committee of the congress. It has an organisation also in London which is a constitution by the Indian National Congress. It has an organisation also in London which is a constitution by the Indian National Congress. It has an organisation also in London which is a constitution and the constitution and the constitution are constitution and the constitution and the constitution are constitution and the constitution are constitution and the constitution are constitution and the constitution are constitution and the constitution are constitution and the constitution and the constitution are constitution and the constitution are constitution and the constitution are constitution and constitution are constitution are This Constitution has been in full working establishment of its own and attached to it. order since 1908. It is unalterable save by a though with independent income, an organ Resolution of a majority in Congress assembled, of opinion, called "India", which echoes the provides a guiding or directing staff of chosen the salient events of what may have happyone the salient events of what may have happyone ment who sympathise with Indian aspirations or take interest in the general progress and welfare of India. The Committee consists of retired Angio-Indians and was for years prejided over by that well-wisher and disinterested friend of India, Sir William Wedderburn, (d. 1918) who was twice elected President of the Congreti-The Committee invariably invites distinguished or leading Indians when in London to take part in its deliberations. The Committee itself is in constant touch with all proceedings in the House of Commons on Indian ansirs

The Congress Re-United.

gal. At the close of an address the dominating feature of which was the claim of India to selfgovernment the President formunted the Congress programme in the following passage:

1. India must cease to be a dependency and be raised to the status of a self-governing state as an equal partner with equal rights and responsibilities as an independent unit of the Lmpire.

In any scheme of readjustment after the

To consider these and various other questions he All-India Congress Committee and the council of the Moslem League held a joint ession in Bombay on July 28th and 29th. At he close of the proceedings the following summary was given to the public.

The following resolutions were passed at the oint conference of the Congress committee and the Council of the Moslem League :-

Dadabhai Naoroil.

(a) The All-India Congress committee and the Council of the Moslem League record their sonse of profound sorrow and irreparable loss the country has sustained by the death of India's Grand Old Man, Dadabhai Naoroji. His great services to the Motherland will always ensuring his memory in the grateful recollections of his countrymen, while his saintly character, private work and public virtues will for all time to come be an example and inspiration to the people of India.

4. Political Work and Passive Resistance.

h) The Provincial Congress committees and cil of the All-India Moslem League be ited to consider the advisability of adopta policy of passive resistance both as regards principle and working in carrying on political ork, and to send their opinion to the general secretaries to the Indian National Congress within 6 weeks. Such opinions, when received, be circulated amongst the members of the All-India Congress committee and the Council of the All-India Moslem League and a joint meeting of the two bodies be held to consider the matter at Allahabad in the first week of October next.

Protest against Bengal Government's Order.

(c) Resolved that this joint session of the Congress and the League records its strong protest against the high-handed action of the Government of Bengal in prohibiting the public meeting which was to be held in Calcutta under the presidency of Sir Bash Behari Glose to protest against the interment of Mrs. Besant, Alessrs. Arundale and Wadla and trusts that the people of Bengal will use every lawful means to vindicate their constitutional rights of freedom of speech and meeting. Resolved further that the Congress committee and the Council of the League request the Government of India and the Secretary of State to direct the Govern-ment of Bengal to forthwith withdraw the order in question prohibiting the holding of the meeting above referred to.

Confidence in Lord Hardinge.

(d) That this joint session of the All-India Congress committee and the Council of the Allthe undiminished confidence of their countrymen in Lord Hardinge whose sympathetic and liberal policy won the love and esteem of India and enabled the Government of India to send Indian troops to France at a critical juncture. It was Lord Hardlage's courage and assacity that made this and other contributions by India to the war possible. Indian public opinion deeply resents the attempt made to discredit him by attributing to him the responsibility for the failures la Mesopotamia,

determining voice in any judgment to be passed on the administration of any of her Viceroys. Resolved further that the above resolution be cabled to the Prime Minister and the Secretary of State.

Special Session of Provincial Conferences.

(c) That this meeting recommends to the provincial Congress committees the desirability of holding a special session of provincial conferences on the same day to give united and public expression to the feeling of the country on the present political situation.

Supplementary Congress Meeting.

(f) That this meeting recommends that arrangements be made for holding supplementary Congress meetings in every district on the same day on which the Indian National Congress will meet at Calcutta at which the translations of the address of the President in the vernacular or the vernaculars of the province should be read and the resolution of the last Congress on the scheme for self-government be adopted.

Support of Reforms Scheme.

(q) That a petition to Parliament be submitted in support of the scheme of reforms adopted by the Indian National Congress and the Moslem League to be prepared by the Hon-Pandit Madan Mohan Malaviya, Sir N. G. Chandavarlar and Mr. N. M. Samarth,

Messrs. Mahomed Ali and Shaukat All.

(h) That this joint meeting urges upon the Government that no further time be lost in restoring to liberty Messrs. Mahomed All and Shaukat All who have been long kept under confinement . under the Defence of India Act arbitrarily with out any charges being formulated or proved against them.

The Madras Internments.

(i) That a tolegram in the name of the meeting be sent to Mrs. Besant and Messrs, Wadia and Arundale.

The policy foreshadowed in the speeches made in May last by His Honour Sir Michael O'Dwyer, Licutenant-Governor of the Punjab, and His Excellency Lord Pentland, Governor of Madras, followed by the orders of the Madras Government interning Mrs. Besant and two of her co-workers, Messrs. Arundale and Wadia, under the Defence of India Act and ex post facto approval which the Right Honourable Austen Chamberlain, as Segment of State Chamberlain, Secretary of State for India, though fit to give to the Madras Government's action, created a situation so fraught with anxiety to all who are interested in the orderly progress and advancement of the country that this Joint Session of the All-India Congress Committee and India Moslem League desires to place on record the Council of the All-India Muslim League specially convened to consider the grave situation and held at Bombay on the 28th and 29th July 1917, deems it its duty both to the Government and the people to submit the following representation to the Secretary of State for India for his careful consideration.

2. Long before the war the Indian National Congress, in the written constitution which it framed for itself in 1908, placed before the coun-India claims a try as its object the attainment of self-govern-

- Educated Indians resented being told, of the persons interned had in reality acted of notwithstanding what was going on in England and in other parts of the Empire, not to carry on during the war an educative propaganda for any constitutional reform whatever but to remain silent on pain of repression, while the Government of India were known to have formulated in secret and despatched to the Secretary of State for his approval certain proposals for post-war reforms which, judging from the speeches of the Provincial authorities referred to above could only be of a minor character. It was apparently in view of the nature of these proposals that the people were asked to give up valu hopes and extravagant expectations.
- The hopes and expectations which the Indian public were told not to entertain have been ardently chorished by them for more than a generation and were further strengthened by the assurances given by responsible British statesmen since the beginning of the war in warm appreciation of India's spontaneous and enthusiastic rally in the cause of the Empire and her unstinted help to England in men, money

and munitions—assurances, repeated from time "time, in language of undoubted sincerity concouraging India to hope that after the war she will have her full share of liberty, justice and political equality, for which England and her great Allies were carrying on this titanic

struggle.

- For the authors of the pronouncements 12. to tell the Indian public that the post-war reforms would fall far short of their expectations was tantamount to their pre-judging the issue and trying to force their own conclusions on the people of India in supersession and in deflunce of the authority of the British Parliament with whom alone rests the final decision of the matter.
- 13. To tell the Indian public that the post-war mforms would be but of minor character, as outlined by them in their speeches, was the more regrettable on account of the obvious implication that the assurances given by responsible British statesmen from the Primo Munister downwards were more hollow hopes held out by them to the people of India on grounds of poli-tical expediency.
- Anything said or done which is calculated to create such an impression and thus to slinke the confidence of the Indian public in the poli-tical integrity of British state-manship is irritating to educated Indians as a class, striven no they have for nearly half a century to inculente loyalty to the British connection in the minds of their countrym in based on their own reasoned consiction that the freedom losing instincts and the sense of honour and justles of the British Dimerracy, as represented by high-souled British state-manship, may safely be relied on by India for realising for a-pirations for political freedom as a reli-governing unit of the British Limpire.
- The Irritation caused by the pronouncements of the Provincial authorities referred to above became acute when the threats of the Madras Government materialised in the internments of Mrs. Beant and her two associates

was really about to act in a manner prejudici: to the public safety, which alone would justif executive action under the drastic provisions (that Act, the thinking and independent portion of the Indian public is naturally reluctant i accept the ipse dixit of the executive in a matte of this kind and is disposed not only to question the justice and propriety of such extreme me asures but to characterise the step taken a arbitrary and unjustifiable and as a great poli tical blunder calculated to produce mischlevon consequences of a far-reaching character on the public life of the country.

16. There is a consensus of opinion among Indians throughout the country that these in interments are the result of a policy of repression inaugurated with a view to put down all agitation for constitutional reform while the war wa! in progress so that the silenced Indian public may be forced to accept such small concessions as the Government of Indla may be willing to

make.

- The authorities responsible for this policy of repression failed to estimate correctly the real strength of opinion in the country demanding a substantial step forwards towards self-government for India within the Empire at the close of the war. They falled to realise further that educated India convinced of the justice of its cause and determined, by all constitutional means, to see it triumph, cannot thus be coerced into submission.
- These being the main reasons which have created a storm of indignation throughout the country, the remedies for allaying it and restoring the confidence of the Indian public are in the hands of Government and should be resorted to without delay in the interests of peaceful progress.

19. Thoso remedies are:

- (a) That an authoritative pronouncement in made pledging the Imperial Government in unequivocal terms to the policy of making India a self-governing member of the British Empire and enjoining the agents and servants of the Crown in India to make honest and strenuous efforts to achieve the end in view at an early date.
- (b) That immediate steps be taken to sanction the scheme of reforms conjointly framed and adopted by the Indian National Congress and the All-India Muslim League with a view to give effect to it at the close of the war.
- (c) That pursuant to the aforesaid authoritative pronouncement the proposals which the Government or India may frame shall be published for public discussion.
- (d) Complete reversal of the policy of mpm; sion inaugurated by the authorities in India and as an earnest thereof the immediate release of Mrs. Besant and Messes, Arundale and Wadix.
- These are the measures which this foint session earnestly appeals to the Imperial Government to adopt before the present political "ituation in India, which is already one of grave becomes deplorably complicately Merry, Armidal and Walla, under the D-f. ner Meters, Armidal and Walla, under the D-f. ner of India Act. In the absence of any evidence withhold, for fear of appearing to have yielded placed before the country establishing that any to popular clamour, what they would otherwise

The Moslem League.

The Indian Motion League was established that may arise as to the intentions of Gorar in 1906. Prior to that time the Indian Moss; ment with regard to any of its measures; lems had stood aloof from politics. Acting under the guldance of the greatest man they liave produced, Sir Syed Ahmad, they devoted their attention to education, founding the Aligarh College with the special purpose of making up the leeway of Mahamedans in education, and left polities to the other Indian peoples. A few Mahomedans Joined the National Congress and took part in its annual sections; but the community as a whole stood aside from political movements.

In 1996 however changes occurred which impelled Indian Moslems to action, Under the Act of 1892, constituting the Indian Legislative Councils, there was no specific Mexicia representation and in the elections which had for all practical purpose failed to find elec-tion. Therefore, when the amendment of the Act and the extension of the representative principle were under discussion, they were stirred to action. They feared lest, under a homogeneous people, their distinct communal interests would either secure no representation at all, or only inadequate representation.

They therefore took counsel together and approached the Viceroy in deputation, headed by His Highness the Aga Khan, and presented by His Highness the Aga Khan. their views in an important State paper. In this they laid stress on their position in the following passage :-

"Representative institutions of the European type are new to the Indian people-many type are new to the Indian people—many of the most thoughtful members of our community, in fact, consider that the greatest care, forethought, and caution will be necessary if they are to be successfully adapted to the social, religious and political conditions obtaining in India—and that in the absence of such care and caution their adoption is likely amount other sets to place out not likely, amonest other evils, to place our na-tional interests at the disposal of an unsym-pathetic majority."

Feeling that the Mahomedans were a distinct community, and that their interests had suffered because they had been under-represented, the deputation asked for representation on a communal basis, and for representation in excess of their actual numerical strength on account of the peculiar and historical position of the Moslem community. This request was accepted, and the Imperial and Provincial Councils embodied the principle of Mahomedan representation on a communal basis.

First Constitution.

It was felt that in view of the changed conditions the Moslems should organise their own mines the sharems among organise their own political society for the expression of their communal policy. This was the origin of the Moslem League. The rules and regulations of the League provided for a constitution, with provincial branches, and defined the objects of the League in the following language:-

The objects of the League shall be—

(a) to promote among Indian Musalmans leagues of loyalty towards the British Government, and to remove any misconception now.

(b) to protect the folltical and other falls and interests of failin Musisimans and t place their needs and assistations letter the Covernment in temperate language;

(c) without projudice to the objects we tioned under (a) and (b) of this rection, I promote so far as possible concord and harmen) tetween the Mussimans and other commistim of India.

Revised Constitution.

In 1912 and 1913 Modern opinion at 65 proved by the Jeann underwent a testal clause. First at a meeting of the Comeafterwards at the annual session which yo held at Inchiow, the constitution was among to as to include in the objects of the learn the attainment of a system of self-govern ment in India under the Crown. The object of the league, as defined in the meet received publication, are thus set forth:-

The objects of the League shall be:-(a) to maintain and promote among the people of this country feelings of hyaliy to wards the British Crown:

(b) to protect and advance the political and other rights and interests of the ladin Muscalmans:

(c) to promote friendship and union believed the Mursalmans and other communities of Indla.

(d) without detriment to the foresome of jects, attainment, under the agis of the Edited Crown, of a system of self-government smial! to India, through constitutional nears, by bringing about, amongst others, a steady reform of the existing system of administration, by promoting national unity, by fosteding public spirit among the people of India and by co-operating with other communities for the said narroses. the said purposes.

This change in the constitution of the League produced much discussion and was opposed by many of the older men who had led the community.

London Branch.

There is a branch of the Modem League in London, of which the Right Hon. Sped Amir All is President. In the autumn of 1913 the London office bearers resigned, as the result of differences of opinion with two indian Moslems who were visiting England, Mr. Mabomed All and Mr. Varier Khan, the honorary secretary of the League, Syrd Amir All thus described the nature of these differences: "an endeavour to capture the organisation here and to impose on it their own will. To both of these attempts I was, in the interests of the Versalman community. in the interests of the Musalman community, bound to take strong objection." In response to strong pressure from the Provincial Legue in India, the London office bearers resumed their posts and the London Branch of the League continues under the former personnel.

The headquarters of the League are at Luck-

Hindu-Mahomedan Entente.-The 1916-17 testion of the Moslem League was held at Lucknov immediately after the session of the Congrees, and at each of those two sessions references were made to the fact that the two organisations were rapidly converging. The Prosi-dent of the Congress (Mr. Ambika Charan Muzumdar) in his address said: "The Hindu-Moslem question has been settled and the Hindus and Mussalmans have agreed to make a united demand for self-government. The Ali-India Congress Committee and the representatives of the Moslem League who recently met in conference at Calcutta have after two days' deliberations in one voice resolved to make a joint demand for a Representative Government in India, There are little differences on one or two minor points of detail but they count for nothing. The vitalissue has been solved and the main point has been gained."

The President of the All-India Moslem League (Mr. M. A. Jinnah) in his address said: "In its general outlook and ideal as regards the future, the All-India Moslem League stands abrast of the Indian National Congress and is ready to participate in any patriotic efforts for the advancement of the country as a whole. In fact this readiness of the educated Moslems, only about a decade after they first entered the field of politics, to work shoulder to shoulder with the other Indian communities for the common good of all is to my mind the strongest proof of the value and need of the separate Moslem political organisation at present. I have been a sturned Congressman throughout my public life and have been no lover of sectarian cries, but it appears to me that the repreach of "Separatism" sometimes levelled at Musalmans, is singularly inapt and wide of the mark when I see this great communal organisation rapidly growing into a powerful factor for the birth of United India. A minority must, above

everything else, have a complete sense of security before its broader political sense can be evoked for co-operation and united endeavour in the National tasks. To the Mussalmans of India security can only come through adequate and effective safeguards as regards their political existence as a community."

What the League stands for.—The attltude of the League was defined as follows by the President of the Reception Committee (Mr. Nablullah): "The All-Indian Moslem Lengue stands to-day for two principal objects, namely, for the safe-guarding of the political position of Mussalmans and for co-operation with the other communities for the attainment of self-govern-ment. The realisation of the first object is, as all fair minded persons would be ready to admit, an essential condition of the success of the second. It would be idle to talk of co-operation if the Mussalmans did not feel a complete sense of security as regards their com-munal future. They are a "minority" and in all political developments a minority must have certain definite safeguards. The Meslem de-mand for such safeguards is, therefore, natural and legitimate and the "majority" which in any case holds the balance of power, cannot op-pose this demand without laying itself open to the charge of selfishness and political insincerity. Let our Hindu brothers remember that an adequato and effective separate representation of blussalmans in self-governing institutions can in no case deprive them of the decisive power of the majority. When such power is guaranteed to them by their number I fail to see why some of their communal enthusiasts should deny to blussalmans the right to secure their political existence. Opposition of this character breeds distrust and the good faith of those who base such opposition on grounds of unity and nationalism comes to be questioned by Moslem rank and file."

SUGGESTED POST-WAR REFORMS.

The following scheme of post-war reforms was prepared by the All-India Congress Committee in conjunction with the Reform Committee of the All-India Moslem League in 1016:—

I .- Provincial Legislative Councils.

- 1. Provincial Legislative Councils shall consist of four-fifths elected and of one-fifth nominated members.
- 2. Their strengtheshall be not less than 125 members in the major provinces, and from 50 to 75 in the minor provinces.
- 3. The members of Councils should be elected directly by people on as broad a franchise as possible.
- 4. Adequate provision should be made for the representation of important minorities by election, and that the Mahomedans should be represented through special electorates on the Provincial Legislative Councils.

Provided that Mahomedans shall not participate in any of the other elections to the Legisative Councils.

- The head of the Provincial Government should not be the President of the Legislative Council but the Council should have the right of electing its President.
- 6. The right of asking supplementary questions should not be restricted to the member putting the original question, but should be allowed to be exercised by any other member.
- 7. (a) Except customs, post, telegraph mint, sait, opium, railways, army and navy, and tributes from Indian States, all other sources of revenue should be provincial.
- (b) There should be no divided heads of revenue. The Government of India should be provided with fixed contributions from the Provincial Governments, such fixed contributions beingliable to revision when extraordinary and unforeseen contingencies render such revision necessary.
- (c) The Provincial Council should have full authority to deal with all matters affecting the internal administration of the Province including the power to raise loans, to impose and alter taxation, and to vote on the Budget. All items of expenditure, and all proposals concern-

ing ways and means for raising the necessary revenue, should be embodied in Bills and submitted to the Provincial Council for adoption.

(d) Resolutions on all matters within the purview of the Provincial Government should be allowed for discussion in accordance with rules made in that behalf by the Council itself.

(c) A resolution passed by the Legislative Council shall be binding on the Executive Government, unless vetoed by the Governor in Council, provided however that if the resolution is again passed by the Council after an interval of not less than one year, it must be given effect to.

(f) A motion for adjournment may be brought forward for the discussion of a definite matter of urgent public importance if supported by not less than one-eighth of the members present.

- Any special meeting of the Council may be summoned on a requisition by not less than one-eighth of the members.
- A Bill, other than a Money Bill, may be introduced in Council in accordance with the rules made in that behalf by the Councilitself and the consent of the Government should not be required therefor.
- 10. All Bills passed by Provincial Legislatures shall have to receive the assent of the Governor before they become law, but may be vetoed by the Governor-General.
- 11. The term of office of the members shall be five years.

II .-- Provincial Government.

- The head of every Provincial Government shall be a Governor who shall not ordinarily belong to the Indian Civil Service or any of the permanent services.
- 2. There shall be in every Province an Executive Council which, with the Governor, shall constitute the Executive Government of the Province.
- 3. Members of the Indian Civil Service shall not ordinarily be appointed to the Executive Councils.
- Not less than one-half of the members of Executive Councilshall consist of Indians to be elected by the elected members of the Provincial Legislative Council.
- The term of office of the members shall be five years.

III .- Imperit Legislative Council .

- 1. The strength of the Imperial Legislative Council shall be 150.
- 2. Four-fifths of the members shall be elected
- 3. The franchise for the Imperial Legislative Council should be widened as far as possible on the lines of the Mahomedan electorates and the elected members of the Provincial Logislative Councils should also form an electorate for the return of Members to the Imperial Legislative Council.
- 4. The President of the Council shall be elected by the Council itself.
- 5. The right of asking supplementary questions shall not be restricted to the member putting the original question but should be allowed to be exercised by any other member.

6. Any special meeting of the Council may be summoned on a regulation by not less than one-eighth of the members.

7. A Bill, other than a Money Bill, may be introduced in Councilin accordance with rules made in that behalf by the Council itself, and the consent of the Executive Government should not be required therefor.

8. All Bills passed by the Council shall have to receive the assent of the Governor-General

before they become law.

9. All financial proposals relating to sources of income and items of expenditure shall be embodied in Bills. Every such Bill and the Budget as a whole shall be submitted for the vote of the Imperial Legislative Council.

10. The term of office of members shall be five years.

11. The matters mentioned herein below shall be exclusively under the control of the Imperial Legislative Council:-

 (a) Matters in regard to which uniform legislation for the whole of India is desirable. (b) Provincial legislation in so far as it may affect inter-provincial fiscal relations.

(c) Questions affecting purely Imperial Revenue, excepting tributes from Indian States.

(d) Questions affecting purely Imperial expenditure, except that no resolution of the imperial Legislative Council shall be binding on the Governor-General in Councilin respect of Military charges for the defence of the country.

(e) The right of revising Indian tariffs and customs duties, of imposing, altering, or removing any tax or cess, modifying the existing system of currency and banking and granting any aids or bounties to any or all deserving and nascent industries of the country

(f) Resolutions on all matters relating to the administration of the country as a whole

12. A Resolution passed by the Legislative Council should be binding on the Executive Government, unless vetoed by the Governor-General in Council: provided however that if the Resolution is again passed by the Council after an interval of not less than one year, it must be given effect to.

13. A motion for adjournment may brought forward for the discussion of a definite matter of urgent public importance, if supported by not less than one-eighth of the members.

present.

14. The Crown may exercise its power of veto in regard to a Bill Passed by a Provincial Legislative Council or by the Imperial Legislative Council within twelve months from the date on which it is passed, and the Bill shall cease to have effect as from the date on which the fact of such veto is made known to the Legislative Council concerned.

15. The Imperial Legislative Council shall have no power to interfere with the Government of India's direction of the military affairs and the foreign political relations of India, including the declaration of war, the making of peace

and the entering into treatics.

1. The Government of India will be the head of the Government of India

2. He will have an Executive Council half of whom shall be Indians.

Scientific Surveys.

The Botanical Survey is under the direction of the Superintendent of the Royal Botanic Garden, Calcutta, with whom are associated the Economic Botanists belonging to the Agri-cultural Department. In 1912 the post of Reporter on Economic Products was abolished and replaced by that of Economic Botanist to the Botanical Survey. Much of the syste-matic botanical work of India is done for the lepartment by forest officers and others. Over 5000 specimens were obtained in 1911-12 by he officer deputed to accompany the Abor Expedition as botanist, and a material addi-ion was made to the information available is to the vegetation of the little-known frontler region traversed.

Geological Survey. -The first object of the Department is the preparation of a general geo-logical map of India. Various economic investigations, which form an increasingly important part of the Department's work, are also con-ducted. These include investigation of marble and sandstone quarries for the purpose of building Imperial Delhi, the examination of the Korea coal-field in the Central Provinces, of petroliferous localities in the Punjab and North-West Frontier Province, of pitchblende areas in the Gaya District, &c.

Zoological Survey.—A scheme for the formation of a Zoological Survey on the basis of the Zoological and Anthropological Section of the Indian Museum, Calcutta, came into force in July, 1918. The proposals as sanctioned by the Secretary of State mainly are as follows:

The headquarters of the Survey will be the Indian Museum. The scheme regarding the Zoological Survey entails the breaking up of the organisation now known as the Zoological and Anthropological Section of the Indian Museum into two parts, one of which will become a Government department under the title of the Zoological Survey of India, and will be primarily concerned with zoological investigation and exercise such advisory functions as may be assigned to it by Government assigned to it by Government, while the other part will remain as the office of the Trustees of the Indian Museum and will be organised for the present on the lines laid down in the existing bylaws of the Museum. It will be the duty of the Zoological Survey to act as guardians of the standard zoological collection of the Indian Empire, and as such to give every assistance in their power both to officials and to others, in the identification of zoological specimens submitted to them, arranging, if requested to do so, to send collections to specialists abroad for identification in cases in which no specialist is available in India. The Director of the Survey is Dr. Anandale.

Mammal Survey .- An important movement has recently been inaugurated by the Bombay Natural History Society which

differences might be more carefully worked out than had been done before, also to form as complete as possible a collection of specimens for the Society's Museum in Bombay. Before the Survey started the Society had a very small collection, and even in the British Museum in London the Indian securiors. tish Museum in London the Indian specimens were very poorly represented? Three trained collectors from England are in the service of the Society and the specimens obtained by the Survey are being worked out at the British Museum and duplicates presented to the differ-ent Indian Museums. In India most of the ent Indian Museums. In India most of the country has been worked on the West Const from Coorg as far north as Mount Abu, also the Central Provinces, Kumaon and Bengal. The whole of Ceylon has been worked, and so has a considerable part of Burma. At the present time owing to the war only one collector is in the field in Silkim, the others having gone to the front. Funds for the Survey were mised by subscription from the principal Native Chiefs and some prominent Bombay citizens Chiefs and some prominent Bombay citizens together with grants from the Government of India, the Government of Ceylon, the Government of Burma, the Government of the Malay States, and the different local-Governments as well as donations from the Bornel Scales the Bettle Mission and the Royal Society, the British Museum and the Zoological Society of London.

The Board of Scientific Advice.— This Board includes the heads of the Meteoro-logical, Geological, Botanical, Forest, and and Survey Departments, representatives of the Agricultural and Civil Veterinary Departments, and other scientific authorities whose special attainments may be useful. It was established in 1902 to co-ordinate official scientific inquiry, to ensure that research work is distributed to the best advantage, and to advise the Gov-ernment of India in prosecuting practical research into those questions of economic or applied science on the solution of which the agricultural and industrial development, of the country so largely depends. The programmes of investigation of the various departments are country and programmed to the Country of the co annually submitted to the Board for discussion and arrangement, and an annual report is published on the work done, as well as a general programme of research for the ensuing year. The reports and the programmes formulated are communicated for consideration to an Ad-visory Committee of the Royal Society, who from time to time furnish valuable suggestions and advice.

The Secretary to the Government of India (Department of Revenue and Agriculture) is exossicio President of the Board which includes the Director-General of Observatories, the Superintendent of the Indian Museum, the Surveyor-General of India, the Principal, ment has recently been inaugurated by the Surveyor-General of India, the Principal, Bombay Natural History Society which Punjab Veterinary College, the Director of the las collected subscriptions for a survey of the manmals of India. This Survey was deneral of Forests, the Agricultural Advisor to begun in 1911 with the object of getting to the Government of India, the Director of the gather properly prepared specimens of all the different kinds of Mammals in India, Burma, Medical Service, the Secretary to the Governand Coving so that their distribution and ment of India, Public Works Department, and

ing researches, to collect and critically collate of inquiries as to Indian materials and their all published information respecting the production and industrial uses of raw materials. British manufacturers and merchants in bringand it has gradually come to be recognized ing to their notice important Indian materials as a central clearing-house for information of which await a new market. this character. Merchants and manufacturers in England, as well as producers in India and which are important auxiliaties to this work the Colonies, have applied in increasing numbers and publishes quarterly the, Bulletin which for information on these subjects. In order that played a conspicuous part in making known to be in a position to deal more effectively with thoughout the Empire the results of researches such enquiries, a special branch of the department, as formed in 1914, whose business it is progress in the various aspects of the production in collaboration with the staff of the Scientific and utilisation of commercial and economic materials. this character. Merchants and manufacturers

Technical Information Bureau.—Ever collect and distribute technical information. since the Scientific and Technical Research Since the war this branch, known as the Technical Department was started, a most important cal Information Bureau, has been very full of part of its work has been, in addition to conduct—work, and has not only dealt with a large number

The Institute has a library and map rooms,

NATIVE PASSENGER SHIPS.

"The Board of Trade made a comprehensive revision of the scale of boats and life-saving ! appliance to be provided on board ships in the United Kingdom and appointed committees of experts to deal with collateral questions arising in the same connection. Meanwhile, the maritime local Governments have been recentled as one maritime local Governments have been consulted as to the necessity for revising the rules which govern vessels in British India, particularly those under the Native Passenger Ships Act, 1895, the Pilgrim Ships Act, 1895, and the Indian Emigration Act, 1805, which are read in the notifications detailed above. The replies show that while a revision is undoubtedly increasing there is great discovered of anisher. appoint a committee representative of official and non-official interests to enquire generally late the sufficiency of the existing rules and report its views to the Government. The committee consisted of the following Presicommittee consisted of the following Fresh-dent and members:—President, Mr. C. G.. Todhunter, I.C.S., Collector, Madras Presidency, Members—the Hon'ble Sir Fazulboy Curim-bhoy Ebrahim, Bombay; Commander C. J. C., Kendall, D.S.O., R.I.M., Port Officer, Calcutta; Mr. W. H. Ogston, partner in Messis. Killick, Kixon & Co., Bombay; Captain P. Dest Cronix, Marine Department, British India Steam Navigation Company, Calcutts."

The Committee met at Bombay and subsequently visited other ports. It was to submit its report to the Government of India on the lst March 1914, but the report has not been published.

Difficulties of the Question-The appointment of the committee was welcomed by the

The following Resolution by the Govern- against the apparent narrowness of the scope ment of India was issued in October 1913, as of the inquiry. The whole subject is one of a result of inquiries set on foot after the loss considerable difficulty and complexity. It is of the Titanic: the enactments now in force are not adequate the enactments now in force are not sucquare to provide accommodation for all on board. It would be invidious to specify any one vessel to illustrate the inndequacy of the present stan-dards, but it may roughly be said that, on the assumption that the cubic capacity which should be provided in life-boats should be at the rate of ten cubic feet per adult, the accom-modation now provided will only afford room for 20 to 50 per cent. of the number of passengers carried. The question is further complicated by reason of the fact that of a number of native Ships Act, 1887, the Filgrim Ships Act, 1893, and the indian Emigration act, 1893, which are read in the notifications detailed above. The replies show that while a revision is undoubtedly: Insistence on the principle that there should be necessary, there is a great divergence of opinion life-boat accommodation for all on board will as to the extent to which it is required and the lines on which it should proceed. The subject carrying capacity, It is doubtful therefore is one of considerable difficulty and complexity, whether, in the case of passenger ships which involving a number of technical and other questions which need careful scrutiny. The Government of India therefore decided to appoint a committee representative of official in the matter of motified life boat accommodation to be allowed aspoints a committee representative of official in the matter of motified life boat accommodation. in the matter of providing life-boat accommoda-tion for all on board. The matter is thus essentially one for local investigation.

Working of the Act.—Under the Native Passenger Ships Act (X of 1837) the term "Native Passenger Ships" is applied to saffing ships, which carry as passengers more than thirty natives of Asia or Africa, and to steam-ships carrying more than airty such natives. Local Governments have discretionary power, with the sanction of the Governor-General in Council, to after these numbers to fifteen and thirty, respectively. A long voyage is defined in the Act as a voyage in which the is denied in the Act as a voyage in which the ship will, in ordinary discountances, be continuously out of port for one hundred and twenty hours or more and a short voyage as one in which the ship will rot, in ordinary circumstances, be continuously out of port for one hundred and twenty hours. The space allotted to parsengers, and some of her conditions differ in a long and a short yourse. Press, though some criticisms were directed tions, differ in a long and a short voyage.

The Public Trustee.

The Pot to Treater of Inches 44 a Conten-Thirt air in the state of the state of the same and about Francis and the street of the Wille, and an advisor of the control of the street of th કું મામણ તે જેમ કર્યું છે કર્યો હો દોષ્ટ્ર હતી કરે કર કરતો છે to be Oaks seen

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Figs. chappenble, office of the number of 1979 of the particle of the nachage upon the Exchapse. A possion of the States declare I if the office is to nake magnetic that to strate offig of the constraint of the state of the configuration of the constraint of the c The last titles assured by the state for breach of front. In secretarion with this routinal british in the feet have already been reduced from their engineers it the cash surplus of front are responses, presented as the nucleus "I a recent fund for all contingencies, is now £14,245.

The main fees are of two kinds—a fee on easified and a fee on lineouse. The fees on capital are taken in two instalments—an instaltrint of help taken at the beginning, and another instalment of half taken at the end of a trut-each instalment being calculated at the fellowing satm:-

Where the income is paid through the Department then the Ice is two per cent. up to £500 a year, and one per cent. on any excess of £500 a year, and a per cent. on income in excess of £2,000 a year. The fee on Investment is a per cent.; the Public Trustee, out of this fee paying the brokerage. There is power to vary these fees to meet the peculiar circumstances of special cases; but owing to the low range of the fees, and their mutual character the power of reduction is but seldom exercised, excent perhaps in the case of large trusts. except perhaps in the case of large trusts.

The Department has been organised upon lines followed by commercial organisations. Forms are avoided wherever possible, the methods of the Office prescribing prompt attention to all matters within the day. The particulars of any trust in which it is desired that the Public Trustee should act may by trought to his notice by letter or by personal interview, and upon his assent being obtained, I's appretment should be effected in the endinary may as in the case of private trustees. In the case of a Will about to be made, his apprintment can be secured by the simple providing of appoint the Public Trustee of hegiand on the executor and trustee of this the Will "

the of the form of trustechip which would appeal to Euglish people residing in India is a setteme known as a " Declaration of Trust." in official pumphics explains that the Public Truster's services have been requested by people who, either because of professional or testines presencing atton, or from want of expericore in dealing with money matters, or from the disadvantages which might attach to tovernmental, professional or business dis-abilities abroad, are not well placed to select and supervise their investments. It would appear that the services of the Department in this matter were first requisitioned by officers taking up appointments in India; and, following out their request for individual assistance. this scheme of trust came to be devised, and has been found to commend itself to the circumstances of a very large circle of persons similarly disadvantaged. A Declaration of Trust is an inexpensive form of trusteeship by ritue of which the owner practically retains full control over his capital. The property is made over to the Public Trustee either in the form of money to be invested or specific securities transferred into his name; and thereupon the Public Trustee executes a short "declaration" In the result of this is that income, as it accrues is paid to the owner or to any beneficiary as he may direct. A wide field of investment is princes per cent. The Fee on income is one per cent. If, as is usual, the income is paid direct from its source to the paid direct from its source to the paid direct from its source to the princes per cent. In case is usual, the income is paid direct from its source to the paid direct. As the pamphlet acts out interest at the rate of at least 4 per cent, is to be indexed on the this form it trusteeshin in analogous to a bank deposit analogous to a bank deposit of the capital as a paid through the paid to the owner or to any beneficiary as he may direct. A wide field of investment is premissible, as the trust provides that the runds may be invested as the owner may from it may be invested as the owner may from it may be invested as the owner may from it may be invested as the owner may from it may be invested as the owner may from it may be invested as the owner or to any beneficiary as he may direct. A wide field of investment is premissible, as the trust provides that the recult of the owner or to any beneficiary as he may direct. A wide field of investment is paid to the owner or to any beneficiary as he may direct. A wide field of investment is paid to the owner or to any beneficiary as he may direct. A wide field of investment is paid to the owner or to any beneficiary as he may direct. A wide field of investment is paid to the owner or to any benefici looked for under the scheme from investments of a non-speculative character. It should be understood that this form of trustceship is not analogous to a bank deposit, where the return of the capital at par, given the solvency of the bank, is expected. Investments are selected with the greatest care in consultation with the owner, but it must be understood that the Public Trustee does not accept responsibility for any furthering of any of the investments. for any fluctuation of any of the investments chosen. The fees payable for this scheme of chosen. The fees payable for this scheme of trusteeship, so far as the capital fees are con-cerned, are half those payable in the case of an ordinary settlement. The other fees are the same as the ordinary fees.

The appointment of the Public Trustee secures certain definite advantages inasmuch as he is by Act of Parliament a Corporation Sole: and thus it is said the Public Trustee never dies, so that the expense of appointment of other Trustees is permanently avoided. His integrity is guaranteed by the Stele, while the vides that strict secrecy shall be observed in measure of his success would indicate that he respect of all trusts administered in the Departis necessarily experienced and skilled in his

Close personal attention is given by the Public Trustee and his senior officers to the details of every trust; and as regards the work of investment, a large organisation has been set up to give the best consideration not only to the selection of investments but to the duty of keeping them under frequent observation.

An Advisory Committee of men of recognised authority has, in the past year, been appointed by the Lord Chanceller to assist the Public Trustee by a quarterly review of the investments made. In the last Annual Report the Public Trustee speaks of having secured a return of £3-19-4 per cent. upon his trustee investments and a return of £4-10-1 per cent. upon his non-trustee investments.

The success of the Department would seem to show that there is a widesprend, public need in England for such an Office, and the energy and efficiency with which the Department has been constituted and conducted has been a great factor in commending it to the public. The State Guarantee is also doubtless a factor of great importance. A statutory rule pro-

ment.

The administration is subject to an audit by the Controller and Auditor-General (the Government Auditor), while the internal orga-nisation has been built up upon the principle of a check and counter-check upon the administration.

An important section of the Statute gives the Public Trustee power to direct an audit and investigation of the condition and accounts of any trust.

Officials in India will doubtless tend to make an increasing use of the Department. As a Government Office, its stability will commend Itself to them as a medium to safeguard their interests under Wills or Settlements which can be entirely relied upon, and free from the risks and expense attendant upon any other forms of trusteeship.

Further information upon details and copies of the official pamphler, reports and rules, etc., can be obtained of the official agents to the Department, re: -- Messrs. King, Hamilton & Co., Calcutta and in Bombay, Messrs, King, King & Co., whose head office is Messrs. Henry S. King & Co., 65, Cornhill, London, E. C.

THE ADMINISTRATOR-GENERAL

In India the functions of a Public Trustee are divided in each Province between two officials. the Administrator-General and the Official Trustee.

The office of Administrator-General was first constituted by Indian Act VII of 1849. There were several later enactments on the subject, all of which have ecased to be in force. The present law is to be found in Indian Act TH of 1913, which contains the following provisions.—There are three Administrators-General in each of the Presidencies of Rengal, Madras, and Dombay. Their combined jurisdiction covers the whole of British India. The Administrator-General is entitled to letters of administration, when granted by a High Court, unless they are granted to the next of kin. In. other Courts he is entitled to letters in preference to a creditor, a legatce other than a universallegatee, or a friend of the deceased.

If any person who is not an Indian Christian, a Hindu, Mohammedan, Persian, Buddhist dies a mincu, sommardin, rersian, building dis leaving within any Presidency assets exceeding the value of Rs. 1,000 and if no person to whom any Court would have jurisdiction to commit administration of such assets has, within one month from his death, applied in such Presidency for probate or letters of administration, the Administrator-General is required to apply for letters of administration. In case of apprehended danger of misappropriation, deterioration, or waste of assets left by the decrased in the towns of Calcutts, Madras, and Pombay, the High Courts may direct the Administrator-General to apply for letters of administration.

General have effect throughout the Presidency, but the High Court can direct that they have effect throughout one or more of the other Presidencies. A private executor or adminis-trator may with the assent of the Adminis-trator-General transfer the assets of the estate to the Administrator-General. There are provisions in the Act with regard to the revoca-tion of grants and the distribution of assets. When the assets do not exceed Rs. 1,000 in value, the Administrator-General may, when no probate or letters of administration have been granted, give a certificate to a person, claiming otherwise than as a creditor to be interested in such assets, entitling him to receive the assets. There is also power in certain events to give such certificate to a creditor. There is a further power to send the residue of the assets to the country of domicile of the deceased. The Government of India is required by the Act to make good all sums for which the Administrator-General would be remonally liable if he had been a private administrator, except where the Administrator-General and his officers have in no way contributed to the lisbility.

Fees both on capital and on income are payable out of the estates taken charge of by the Administrator-General. The fees on capital vary from 3 per cent, on the gross value in the case of small estates to 2 per cent, in the case of large estates. The fees on income vary in the case of moveable property from 2 per cont-to 3 per cent., and in the case of Immovable property from 3 per cent. to 5 per cent. When the Court has directed the Administrator General to collect and held the assets a fee of 1 He can also be required to collect and hold
assits until a right of encorrion or administration is determined. Probate and letters of administration granted to an AdministratorA small fee is also payable in cases where the

Freemasonry.

In an Institution so universal as Freemannery the growth of that body in any particular part of the world is usually similar in all respects to the development in other parts. When Freemanner was first established in Bombay and became strong enough to have its own Provincial Grand Lodge, the Grand Master of English Freemanners appointed James Todd, a Lieutenant of Police, as the first Provincial Grand Master in 1763. This office he held until 1798, when the Provincial Grand Lodge seems to have gone into abeyance. A revival apparently set in in 1833, and Lodge Orion in the West was founded at Poona. This was followed in 1844 by Lodge St. Andrews at Kamptee and in 1818 by Lodge St. George in Bombay. In 1801 the Provincial Grand Lodge was revived and George Taylor was appointed P. G. M.

In 1870 a fresh warrant was issued by which the Provincial Grand Lodge of Bombay was altered to District Grand Lodge with James Gibbs as D. G. M. The next D. G. M. was Edward Tyrell Leith who took charge in 1870, and he was followed in 1887 by H. R. H. the Duke of Connaught. The remainder of the District Grand Masters were H. E. Lord Sandhurst 1895-1899, H. E. Lord Northcote 1900-1902, Hon. Sir Lawrance Jonkins 1903-1907 and G. Owen W. Dunn 1903-1911. The present D. G. M. belng W. Alban Haig-Brown who was appointed in 1812.

Under the skilful management of these illustrious men the District has grown until now there are under the District Grand Lodge of Bombay 40 Lodges with a total membership of over 2,000.

At the same time the Royal Arch and Mark degrees have also prospered and there are 18 Chapters with a total membership of over 600 and 11 Mark Lodges totalling over 300.

DISTRICT GRAND LODGE E. C. List of Principal Officers, 1917.

BENGAL.

n. W. District Grand Master, Lord Ronaldshay, G.C.LE.

Deputy District Grand Master, Col. A. H. D. Creagh, c. M. G.

District Senior Grand Warden, The Hon'ble Mr. Kiran Chunder De, O.I.E.

District Junior Grand Warden, The Hon. Mr. N. D. Bentson Bell, O.I.E.

District Grand Secretary, J. A. Dolton, 19, Park Street, Calcutta.

BOMBAY.

R. W. District Grand Master, W. A. Haig-Brown, J.P.

Deputy District Grand Master, C. B. Robinson, J.P., P.G.D. (Eng.).

District Senior Warden, S. S. K. Galkwad.

District Junior Grand Warden, Col. W. B. Lane. District Grand Secretary, J. F. Pennock, v.D., P.A.G.D.O. (Eng.) King's Building, Fort, Bombay. MADRAG.

R. W. District Grand Master, Hon. Mr. Ll. E. Buckley.

Deputy District Grand Master, C. J. Higgs.

P. G. D. (Eng).

District Senior Grand Warden, V. Tirumalai Piliai. District Junior Grand Warden, Brig.-General H.

District Junior Grand Warden, Brig.-General H. F. Lock.

District Grand Secretary, J. H. B. Brougham. Mount Road, Madras.
PURJAR.

Rt. Wor. District Grand Master, Col. Henry. T. Pcase, C.L.E., P.G.D. (Eng). Deputy District Grand Master, Vacant.

District Grand Secretary, David E. Johnston, Freemasons Hall, Labore.

BURMAH.

R. W. District Grand Master, The Hon. Mr. Justice E. W. Ormond.

Deputy District Grand Marter, W. Kin. District Senior Grand Warden, W. Archibald. District Junior Grand Warden, Rev. J. Lister

District Grand Secretary, W. Kindall.
GRAND LODGE OF ALL SCOTTISH
FEDEMASONEY IN INDIA.

Installation—November (St. Andrew's Day).
COMMUNICATION—4th Saturday, in January,
April, July, and October.

PLACE OF MEETING —Freemasons' Hall, Ravelin Street, Bombay.

Grand Master, The Hon'ble Justice Sir Frank Beaman, I.C.S.

Grand Master Depute, Pestonjee M. Kanga, Substitute Grand Master, L. H. Savile,

Grand Superintendent of Central India, W. E. Jardine, C.LE., LO.S.

Grand Superintendent of Eastern India, W. R. Gourlay, Lo.s.

Senior Grand Warden, U. S. Curtis, C.S., 1.C.S.

Do. do. do. A. Pellymounter. Junior Grand Warden, C. H. Captain.

Do. do. do. Dr. H. P. Joseph.

Do. do. do. D. F. Mackie.

G. Secretary—ARTHUR W. WISE, Elphinstone Building, Murrhan Road, Fort, Bombay.

BENGAL MASONIO ASSOCIATION.

For Educating Children of Indigent Free-

President.—Lord Ronaldshay, G.C.I.E., District Grand Master.

This Association is supported by capitation assessments from the Lodges in the District of Bengal and by voluntary contributions.

1. A donation of Rs. 500 made in one or more payments of not-less than Rs. 50 each constitutes the donor a Vice-President for Life with the privilege of five votes.

- 2. A donation of Rs. 100 constitutes the donor a Governor for Life, with the privilege of one role and one vote for each additional donarion of Es. 100.
- A subscription of Rs. 16 per annum entitles the subscriber to one vote for the year and an extra vote for every additional Rs. 16.
- 4. The conditions of the above are the same whether the donor or subscriber be an individual or a Lodge, Chapter, or any other society.
- A general meeting of subscribers is held twice in the year, at I'reemasons' Hall, Calcutta, 19. Park Street.
- 6. The general conduct of the affairs of the Association is entrusted to a Committee composed of the Freddent, Treasurer, and Secretary, and of five Members to be elected at the l'ebruary Half-yearly General Meeting.
- 7. The funds of the Association are devoted goldly to the board and education of children.
- 8. Children are admitted into the Association at the age of seven years and continue therein till they have attained the age of seventeen
- This rule applies equally to children of both seres without any distinction of religious denominations.
- 9. Elections take place at each General Meeting of Subscribers according to the number of vacancies and carabilities of the fund,
- No child is eligible to be placed on the List of Candidates unless his father has been a Registered Mason for five years and Subscribing Member of some Lodge for at least three years of that period.

Subscriptions and donations are received by the District Grand Secretary and by the Secretary of the Association (Hertert E. Kent, Freemasons' Mall, 19, Park Street), W. J. Bradshaw, Hon. Treasurer, and Herbert D. Kent, Secretary.

BENEVOLENCE.

GRAND COMMITTEE.

President.—Lord Ronaldhahay, G.O.L.E., K.C. M.G., District Grand Master.

- Col. A. H. D. Creagh, o.u.a., Deputy Distric Grand Master.
 - C. D. Stewart. P.D.G.W.
 - S. A. Fairweather, Grand Treasurer, J. A. Dolton, Grand Secretary,
 - H. E. Kent, Asst. Grand Secretary.

SCOTTISH MASONIC FUND OF BENEVOLENCE.

For the purpose of affording temporary relie to indigent Freemasons and their families.

Grand Secretary—Arthur W. Wise, Eiphinstone Building, Murzban Road, Fort, Bombay.

THE SCOTTISH MASONIC BENEVOLENT ASSOCIATION IN INDIA.

- (a) For the purpose of granting Annuities to old and destitute Freemasons and their widows.
- (b) Granting allowances towards the maintenance and education of the children of deceased or indigent Freemasons.
- J. C. Mistree, Honorary Secretary and Trea-

THE SIND MASONIC BENEVOLENT ASSOCIATION.

Pairon.

- Right Wor. Bro. H. E. the Right Hon'ble Lord Lamington, G.O.K.G., G.C.I.E., Late Grand Master of A. S. F., India, and Governor of Bombau.
- C. H. Chetham, President, Secretary.—Fran-roze E. Punthakey, Victoria Street, Predy Quarter, Karachi.

THE BOMBAY MASONIC ASSOCIATION.

For Educating, Clothing and Maintaining the Chikiren of Indigent and Deceased Freemasons.

Subscriptions and donations are received by the Hon. Sec. J. F. Pennock, D. G. S., King's Building, Bombay.

Indian Architecture.

1. ANCIENT.

The architecture of India has proceeded on lines of its own, and its manuments are unique order. Of this rich and beautiful style the amount those of the nations of the world. An uniet noted examples are petups the Dilwars anchets civilization, a natural bent on the part of the people towards religious fervour of the "Tever of Victory" at Chitters. contemplative rather than of the fanatical; sort, combined with the richness of the country in the sterner building materials—these are , a few of the factors that contributed to making it what it was, while a stirring history gave it both variety and glamour. Indian architec-ture is a subject which at the best has been studied only imperfectly, and a really com-prehensive treatise on it has yet to be written. The subject is a vast and varied one, and it may be such a treatise never will be written in the form of one work at any rate. The spirit of Indian art is so further to the European of art culture that it is only one European in a hundred who can entirely understand it. while art criticism and analysis is a branch of study that the modern Indian has not us bet rentined upon to any appreciable extent.

Illiherto the one, and with a lew exceptions
the only recognized authority on the subject has been Fergusson, whose compendious nork is that which will find most ready acceptance by the general reader. But Fergusson attempts. ed the nearly impossible task of covering the ground in one volume of moderate dimensions, and it is sometimes held that he was a man of too purely European a culture, albeit wide and celectic, to admit of sufficient depth of insight in this particular direction. Fergueson's classification by races and religions is, however, the one that has been generally accepted hitherto. He asserts that there is no stone architecture in India of an earlier date than two and a half centuries before the Christ-ian era, and that "India owes the introduc-tion of the use of stone for architectural pur-pores, as she does that of fluidhlam as a state." religion, to the great Asoka, who reigned B.C. and Udalpur. 272 to 236."

Buddhist Work.

Fergusson's first architectural period is then the Buddhist, of which the great tope at Sanchi with its famous Northern gateway recognizable than those of what is generally we have the Candharm topes and monasteries. Perhaps the most noted example. Then was have the Candharm topes and monasteries. Perhaps the examples of Buddhist recess to the general student are to be found in the Chaltyn halls or rock-cut caves of Karli, Ajants, Nasik, Ellom and Kanheri. A point with relation to the Gandhara work may be alluded to in passing. This is the strong European tendency, variously recognized as Roman, Byzantine but most frequently as Greek, to be observed in the details. The toliage seen in the capitals of columns bears strong resemblance to the Greek acantins, while the sulptures have a distinct trace of Greek influence, particularly in the treatment of drapery, but also of hair and facial expression. From this it has been a fairly common assumption amongst some authorities that Indian are oved much of its best to European influence, an executable of sculptured represents.

Other Hindu Styles.

The Brasidian style is the generic title usually applied to the characteristic work of the Matria Predictor and the South of India-it is seen in many medicut temple as at Libra; where the remarkable "Kylas" is on instance of a temple cut out of the solid nock, complete. not only with respect to its interior (as in the eare of more cavely but also as to its extension. It is, as it were, a fil-stre model of a complete building or group of buildings, several hundred feet in length, not built, but eculptured in solid stone, an undertaking of vast and, to our modern ideas, unproduble industry. The Parvia of Tanjore, the temples at Sirrangum, Childsminram, Vellore, Vijayanagar, &c., and the pulsees at Madura and Innjore are among the best known examples of the style.

The writer finds come difficulty in following Pergussin's two next divisions of classification, the "Chalukyan" of South-central India, and the "Northern or Indo-Argan ctyle." The differences and the similarities are appatently so intermixed and confusing that he is fally to fall back on the broad generic title of " Hinda "-honeser anseleptific he may thereby stand confessed. Amongst a vast number of Hindu temples the following may be menof Hadu temples the following may be men-tioned as particularly worthy of study:—Those at Mukteswara and Bhuvaneswar in Orista, at Khajuraho, Bindrabun, Udalpur, Benares, Gwallor, &c. The palace of the Hindu Raja Man Singh at Gwallor is one of the most beautiful architectural examples in India. So also are the palaces of Amber, Datiya, Urcha, Di2

while the soulptures have a distinct trace of mosque with its wide spaces to meet the needs of creak influence, particularly in the treatment of drapery, but also of hair and facial expression. From this it has been a fairly common assumption amongst gome authorities that Indian art owed much of its best to European influence, an exumption that is strenuously combated by others as will be pointed out later.

I with direction from the property but content that the art, through modified; the title displayed in the object of the content of the conten

there. He put that is never to a natively more to the Clar of the feet the an literam pained ander the i The Antidecture radical under the bunds. Let be equive it a smoothing two, be independed in a sit to appear of it and wit. The writer was improved by this co-a first when of the final or palace already anti-ord. To order a little failting that Pare I've yet much of visit tolgist be called is more equitibilities quality of the lust warmle with as bell as some similarity of civil. It has, I and His lu, a certain amount first to the following of wilmstel forms, bit the general effect of municipes, rithers and lettered therein in parted seemed elequent reliefers thereby imported seemed elequed. Agra and Delhi may be regarded as the a surgestion as to what is lacking in so many principal centres of the Indo-Saracenic style—

the Mahamitans. The extreme slew on the one contres may be mentioned, because in each hard is to recard all the best of the art as harlong there appeared certain strongly marked indices that an employee with their tirrek tendency, of the style there found from the variety scen that they must be development to which allustion has been made, for the style there found from the variety scen that reach to which allustion has been made, the similarities to be found between the Mahor, the similarities to be found between the Mahor, that of the other. These are Ahmedabad in the Binarit and, above all, the historial evidences.

Attract and, above all, the historial evidences. that exict of the presence in India of Europeans during Mogal times, are cited in support of and Champanit then seems to be less of a departicle theory. On the other hand those of the ture from the older Hindu toring, a tendency to opposite school hold the foregoing view to be added to the linted and bracket rather than to eppesite school hell the forceding view to be adde a to the lint I and bracket rather than to the prevailing European preconception that all light nod leading must come by way that all light nod leading must come by way though constantly employed, was there never of Europe, and the best things in art by way developed to its full extent as elsewhere, or force. To them the Gandharan sculpture, and the truly indicators work beauties and significance not to be seen in the Gracco-Bactrian sculptures, and point to those of Europuder in Java, the work of Buddhist form India, wonderfully pre-crued by reason of an immenity from destructive influences given by the insular position, as planted that a just estimate of the art extant. It is hobable that a just estimate of the merits of the controversy, with respect to sculpture at any rate, cannot be formed till time has any rate, cannot be formed till time has appreciated once of the differences of taste ling the greatest space of floor in any building of the controversy, with respect to sculpture at any rate, cannot be formed till time has obliterated some of the differences of taste

tail telemant began to to depend on to their partial exists. Inster of the former religion, while the latter and comparatively recent The art was the Go palest by the personnel in Mr. E. R. Hand, who works, on the ambject are reconceded for study side by side with than of the firmer witter. Mr. Havell pracelseddrather into styles in fasour of a chrenological review of what he regards to a greater extent then did his famous presuper as being can continuous homogeneous. Indian mode of architectural expression, though subject to sectations from the influences brought to bear upon it and from the varied purposes to which it was applied.

Agra and Delhi.

a surged on as to what is lacking in to many inincipal centers of the Indocaracemic etylemit the Malametan buildings.

Foreign influence.

There would appear to be a conflict between the the former for the tenomed Tai Malai, for Akbara decreted capital of Tatelipur bikel, his tomb at become, the Most Musified and the lacked to the finite art president by Inchm influence under the former for the agran fort. At Definite mark president by Inchm influence under the tombs of Humayon, Sudar Jung, &c., and the unique Quitb Minar. Two other great hand its to regard all the best of the art as having a decreted capital of Tatelipur bikel, his tomb at become of Humayon, Sudar Jung, &c., and the unique Quitb Minar. Two other great hand its to regard all the best of the art as having a decreted capital of Tatelipur bikel, his tomb at become of Humayon, Sudar Jung, &c., and the unique Quitb Minar. Two other great hand in the former for the tenoment Tatelipur bikel, his tomb at become it appears to Park and Tatelipur bikel, his tomb at become its fort. At Definite the present the proposition of the proposition of

At Abmodated with its neighbours Sirklid

obliterated some of the differences of taste that exist between East and West.

To the adherents of the newer school the inche world roofed by a single dome, not even excepting the Pantheon. The lintel also was here practically discarded in favour of the arch, and Hindu buildings outwelgh those between Indo-Maho that is unequalled elsewhere in Indian work, especially in the light of the dis-almitwork, especially in the light of the dis-almit though in richness and delicacy it does not that its unequalled elsewhere in Indian though in richness and delicacy it does not attempt to rival the work of the further North, charges produced by the advent of Islam, In this we recognize among other influences ing the createst space of floor in any building

that of the prevailing material, the hard unchained of materials available—the compromising Dekhan baselt. In a similar and white sandstones, combined to manner the characteristics of the Ahmedabad to mathe and other more costly work with its greater richness of ornamenta-was no doubt largely responsible for lion are bound up with the nature of the Gujarat castly recognizable characteristics of freestone, while at Beihl and Agra the free tecture of these centres.

II. MODERN.

Ither modern architectural work of India then much discussed project of the Goy divides itself sharply into two classes. There is first that of the indigenous Indian "Master-builder" to be found chiefly in the Native States, particularly those in Rajputana. States, particularly those in Rajputana. Second there is that of British India, or of all those parts of the penhaula wherever Western ideas and methods have most strongly spread their influence, chiefly, in the case of architecture, through the medium of the Department of Public Works. The work of that department has been much animalverted the post. They still mixter a considering it has been produced by men of Indian not only amongst the artistic following and india, but even with but, considering it has been produced by men of whom it was admittedly not the metier, and who were necessarily contending with lack of expert training on the one hand and with departmental methods on the other, it must be conceded that it can thew many notable buildlngs. Of recent years there has been a tendency on the part of professional architects to turn their attention to India, and a number of these has even been drafted into the service of Government as the result of a policy ini-tiated in Lord Curzon's Viceroyalty. In time, therefore, and with the growth of the influence of these men, such of the reproach against the building of the British in India as was just and was not merely thoughtlessly maintained as a corollary to the popular jape against every-thing official, may gradually be removed. It this is so as to Government work progres should be even more assured in the freer atmosphere outside of official life. Already in certain of the greater cities, where the trained modern architect has established himself, in private practice, there are signs that his influence is beginning to be felt. He still complains, howover, that the general public of India need-much educating up to a recognition of his value, both in a pecuniary sense and other-wise. It is also to be observed that the survival of a relic of the popular idea of the time before his advent, to the effect that though an architect might occasionally "design" a building it was always an engineer who built it, is still indicated by the architect in some cases deeming it advisable to style himself, "architect and engineer,"

To the work of the indigenous "masterbuilder" public attention has of recent years ings of British India as well as examples been drawn with some insistence, and the suggestion has been pressed that efforts should be directed towards devising means for the preservation of what is pointed out—and now universally acknowledged—to be a remarkable in instances of picturesque modern is surely architecture, while at Jaipur, Ud benares, etc., this class of work may be stoned with in many different forms both civil and religious and the surement of the surement of the strength of the country which the "univoken transport of the surement of the builder" public attention has of recent years iniversity non-device generated by the only one left in the worldof "living art," but which is threatened with gradual extinction by reason of the spread of Western ideals and fashions. The matter from the past" exists may there be assumed some years ago the form of a mild controversy contains round the question of the

of England and India, but even with Covernment services. Their opponents, is what appears to be the more off-fall she as to archimotogy and art, have polited a "death?" of all the arts of the jast in countries as an indication of a ratural lad deprecate as waste of energy all efforts to this law, or to in-titute what they have to they contend, should do us did the at Romans in every country on which they pl th it conquering foot. As those were we replace indigenous art with that of Ron should we set our soil of conquest permar on India by the erection of examples of the of British art. This is the spow which, as we indicated, appears to have obtained it moment the more influential hearing, an task of designing and directing the constri of the principal buildings in the new Capit. accordingly been entrusted jointly to a Li and to a South African architect, neiti whom can be unduly influenced by sittle or recent architectural gractice so far as is concerned.

The results cannot but be awaited w keenest interest, and meanwhile the versy, with suspended indement, natural into abeyance. It is, moreover, howeful to the interests of the country's archa too purely technical and academic for its to be estimated by the general reade of cussed here. Its chief claim on our thin the fact that has in the fact that has in the fact that it affords an added to the tourist, who may see the fruits schools of thought in the various moder ings of British India as well as examples

Archæology.

his demise.

The and notifical treature of locia are anjuministing, and the whole is enclosed by a mass rated as the rate numerous. There at the along a top railing with him cates facing the and have not have a transfer of 1 notes are repaired on the whole it replaced by a mass table as they are numerous. There as the place has been a saling the pre-lichance table table pre-lichance table t an to accepted to a time entire than that of leithe feir, a 210 BCC to the 2th fire-books are tre-crimette the best that of flore and films titl - pomient day, with a more easily or also it all or easily or also it. Been at the element the easily many employed. As on as the color of the Gib extens, RC., Memathered, the fireth Anti-ex-able at the court of Chandraupts, grand-ties of Arcks, decribes Pataliguits, the apital of the Indian minagent, as "engrounded me can be self months were done to the capital for the decision of anomal." If the capital for the war this defended, we can easily infer that he applifecture of the period was woolen. ied I'ms I'ms after sinne was introduced the spiral from, the monden.

Pillars,-The first class of t Monumental Pillars. -The first class of books, that we have to notice are the money ental filler, known as fets. The oldert are to many tittle entumer of Archa, meanly thirty man dittle columns of Asoka, nearly tons; number, of which ten hear list inscriptions. I then the Lauriya-Nandangarh column in Champaran Dictrict, Tirlini, is practically nined. The capital of each column, like . thatt, was mendlittle, and comprised three miers, sin a Perspenitan bell, abiecs, and compiler the first a Perspenitan bell, abiecs, it is rowning sculpture in the round. By far is best capital of Assars time was that eximed at Samath near Penares. The four media granding back to back on the abacus are the random park to make of the about are bred with extraordinary precion and nethers. Of the post-Arotan prior one pile (H.C. 150) stands to the north-east of liver are in the Gwalior State, another in front of the control of the c cave of Katli (A.D. 70), and a third at Eran Central Provinces belonging to the 5th Con-ir, A. D. All there are of stone; but there he of iron also. It is near the Quib Minar D-lhi, and an inveription on it speaks of its 10-lil, and an inveription on it speaks of its an isome rected by a king called Chandra, while I with Chandracupita II. (A.D. 373-100) the Gupta dynasty. It is wonderful find the Hindus at that are forging a bare that have been forged its I Europe to a very late date, and not its life wonderful to the context of later type its active even now." Pillars of later type its active even now." is and dall over the country, especially in the inconfiguration. No less than twenty exist I Land Presidency. No less than twenty exist the presidency. Learn Presidency, no intrict. A particularly official outh Kanara District.

7 reary example faces adjains temple at Mudaadvance t far from Mangalore.

Stupas, known as dagabas in Ceylon and administrated Topes in North India, were constructed either for the safe custody of relics hidden in a chamber often near the base or to mark the scene of notable events in Buddhist or Jaina legends. Though we know that the ancient Jainas built stupes, no specimen of Jaina stupes is now extant. Of those belonging to the Euddhists, the great Tope of Sanchi .- Bhopal, is the most intact and entire of its it. It consists of a low circular drum sup-

contem I am exactly out are literature or art, as off didin Marchall's governt explorations have concludely shown, the railing and the gatewas were at least 150 and 200 years later, ferportionly. Other famous Buddhirt stores that have been found are time of Blackut between Maintand and Justingers, Amrayal in the Mairas Presidency, and Piptshwa on the Nes-palers frontier. The top-proper at Bhathut has entirely disappeared, I awing been utilized for fulfilling sillages, and what remained of the rall has been removed to the Calcutta Murcura-The few-reliefs on this rail which contain rhort interiptions and thus enable one to identify the seenes sculptured with the Joial is or Bittle Stories of Buddla give it a unique value. this extres continued to be influenced by, or! The stupe at Americal also no longer exists, and portions of its rail, which is unsurpassed in point of elaboration and artistic merit, are now in the British and Madras Muccums. The store at Pipraliwa was opened by Mr. W. C. Peppe in 1898, and a steatite or soap-stone relineary with an inscription on it, was uncarried, The inscription, according to many scholars, apeals of the relies being of Huddha and enshrined by his kinsmen, the Sakyas. And we have thus here one of the surge that were erected over the ashes of Buddha immediately after

Caves .- Of the rock excavations which are one of the wonders of India, nine-tenths belong to Western India. The most important groups of cave are situated in Binja Beda. Karii, Kanheri. Junnar, and Nasik in the Bombay Presidency, Ellora and Ajanta in Nizam's Dominions, Baratar 16 miles north of Gaya, and Udayagiri and Khandagiri 20 miles from Cuttack in Oriera. The caves belong to the three principal sects into which ancient India was di-vided, riz., the Buddhists, Hindus and Jainas, The earliest caves so far discovered are those of Barabar which were excavated by Asoka and his grander which were excavated by Afoka and his grandson Dasaratha, and dedicated to Aji-vikas, a naked sect founded by Makkhali Gosala. This refutes the theory that cave architecture was of Buddhist origin. The next carillest caves are those of Bhaji. Pitalkhora and cave No. 0 at Ajanta and No. 19 at Nasik. They have been assigned to 200 B.C. by Fergusson and But there is good reason to sup-Dr. Burgess. pore from Sir John Marshall's recent researches and from epigraphic considerations that they are considerably more modern. The Buddhist caves are of two types—the chailyas or chapel caves and riliaras or monasteries for the residence of monks. The first are with vaulted roofs and horse-shoe shaped windows over the entrance and have interiors consisting of a nave and side ai-les with a small stupe at the inner circular end. They are thus remarkably similar to Christian basilicas. The second class consist of a hall surrounded by a number of cells. In the later pharas there was a sanctum in the centre of the back wall containing a large Image of Buddha, a hemispherical dome of less diameter. Hardly a challya is found without one or more the drum is an open passage for circum- riharas adjoining it. Of the Hindu cave tem-

pies that at Elephania near Bombay is perhaps. Draviding to the horizontal, the most frequented. It is dedicated to five between of the ferroer artic and is not carlier than the 7th century A.B.; vilmear streple, and of the latter, the pyractic.
But by far the most renowned care-temple of tower. The most notable examples of the finite that known as Kallava at Illiona, kind are to be found among the temple of 127

and Udayaciri; those of the medicial type, than riths. They are the callest example of a India Sabha at Ellora; and those of the latest typical Dravidian architecture, and tries to period, at Ankai in Nasik. The ceilings of many the 7th century. To the same ago hat to be of these caves were once adomed with freeco as somed the temple of Kallacapath at Coshe pulntings. Perhaps, the best preserved among versus, and to the following century size of the there are those at Ajanta, which were except temples at Ajanta of the Equipment at the edicine periods between 350-650 A.D.; Distinct, Hombay Presidency, and the Except and have elicited high praise as works of art. Bithic temple of Kallara at Lilbert, where the Confest were first made by Major Gill, but most sabore. Of the latest praise as were residenced in the confest of the confest were first made by Major Gill, but most sabore. Copies were first made by Major Gill, but most above. Of the later Dravidian style the first of them perished by fire at the Crystal Palace in 1890. The lost ones were again copied by John Griffiths of the Arts School, Bombay, half of whose work was similarly destroyed by a fire at South Kensington. They were last copied by Lady Herringham during 1909-11. Her pictures, which are in full goals, are at present exhibited at the Indian Section of the Victoria and Albert Museum, South Kensington, and have been reprodue d in a volume brought out by the India Society.

Gandbara Monuments.-On the north-west frontier of India, anciently known as tiandhara. are found a class of remains, ruined monasteries and buried stupes, among which we notice for the first time representations of Buddha and the Buddhist pantheon. The free use of Corinthian capitals, friezes of nude Litotes bearing a long carland, winced Atlantes without number, and tions, of which numbers have been known to industrial of industrial art. The mound at varieties of medically known as Shah-ji-ke-Dhen, and copper. The earliest of these are found thich was explained in 1900, bruncht to garland, winced Atlantes without number, and which was explored in 1900, brought to light several interesting sculptures of the chool together with a reliquary casket, the most remarkable bronze object of the Gardhara most remarkable bronze object of the Gardham period. The inscription on the casket left no doubt as to the mound being the supa raised over the bones of Buddha by the Indo-Seythian king Kanishka. They were presented by Lord Minto's Government to the Buddhats of Burma and are now enshrined at Mandalay. The supar at the State of the Persian domination of Burma and are now enshrined at Mandalay. The state of Manikyala in the Cunjab opened by Ranjit are the celebrated edicts of Asoka. One group Singh's French Generals, Ventura and Court, of these has been engraved on rocks, and an Kanishka.

South India we have two more examples, viz. Lad Khan and Durga temples at Alhole in Bijapur. All these belong to the early Gupta period and cannot be later than 500 A.D. period and cannot be later than 500 A.D. The only common characteristic is flat roofs without spires of any kind. In other respects they are entirely different and already here we mark the beginning of the two styles, Indo-Aryan and Dravidian, whose differences become more and more pronounced from the 7th century onwards. In the Indo-Aryan style, the most prominent inscription of the Besnagar pillar. The pillar inscription of the Besnagar pillar.

Tur to the en the Hindus is that known as Kallara at lillora; kind are to be found among the tempth offer. It is on the model of a complete structural believes in Orian, Kindhara in Docksthard, tempth but carred out of solid rock. It also is deficient to Siva and was excavated by the Dashirakuta king. Krishna I. (A. D. 763), who may still be seen in the paintings in the will be seen in the paintings in the cellings of the upper porch of the main sprine, of Madras. They are each learn out of a bindle and allowed those of the modifical terms of the modifical that of the modifical transfer of gracier, and are rather product of the modifical transfer o temple at Tanjore and the Sciences trained of Trichinopoly are the best examples.

Intermediate between there two main mil comes the architecture of the Decean, cale Chalukyan by Fergusson. In this style the plan becomes polygonal and start-happed threat of qua transcular; and the high-storyed time is converted into a low pyramid in what the homeometric treatment of the Dravidia B combined with the perpendicular of the laid Aryan. Some one examples of this type exists at Dambal, Estudail, Tillwalli and Hanell Diarwar, Bombay Presidency, and at item and Warangal in Sigam's Dominions. Define the translation of the translation it is in Myrore among the temples at Hall-Beiur, and Somnathpur that the style is form in its full perfection.

inscriptions.-We now come to institu incised in two distinct kinds of alphabet, known as Brahmi and Kharoshthi. The Brahmi was read from left to right, and from it have been Singh's remed Generals, venturn and Court, of these has been entraved on rocks, and and in 1830. Some of them contained coins of other on pillars. They have been found from Kanishka. Shahbazgarhi 40 miles north-east of Perhawat Structural Temples.—Of this class we have to Nicilva in the Nepal Taral, from Girnar in one of the earliest examples at Sanchi, and Kathiawar to Dhauli in Orissa, from Kalelia the another at Tigova in the Central Provinces. In Lower Himalayas to Siddapur in Mysore, show that the contral Provinces in Lower Himalayas to Siddapur in Mysore, show that the contral Provinces in Lower Himalayas to Siddapur in Mysore, show that the contral Provinces is the contral Provinces. ing by the way the vast extent of territory bell by him. The reference in his Rock Edicts to the five contemporary Greek Princes, Antio-chus II. of Syria, Ptolemy Philadelphus, and so forth is exceedingly interesting, and fire B.C. 269 as the date of his coronation. His Rummieds with the state of the coronation.

Marshall was the first to notice the inscription pur. There is here relatively little trace of on it. It records the erection of this column, which was a Garuda pillar, in honour of the god Vasudeva by one Reliodoros, soo of Dion, who is described as an envoy of King Antalkidas of Taxila. Heliodorous is herein called and Bhagarata, which shows that though a Greek he had become a Hindu and presumably a Vaishnava. Another inscription worth noticing Vaishnava. Another inscription worth noticing and especially in this connection is that of Cave No. 10 at Nasik. The donor of this cave, Ushavadata, who calls himself a Saka and was thus an Indo-Scythlan, is therein spoken of as having granted three hundred thousand kine and sixteen villages to gods and Brahmans and as having annually fed one hundred thousand Brahmans. Here is another instance of a foreigner having enforaced Hinduism. Thus for the political, social, economical and religious history of India at the different periods the inscriptions are invaluable records, and are the only light but for which we are forlorn and

Saraconic Architecture.—This begins in India with the 13th century after the per-manent occupation of the Muhammadans. Their first messures were constructed of the materials of Hindu and Jaina temples, and somematerians of minus and some temples, and some-times with comparatively slight alterations. The mosque called Adhai-din-ka-jhompra at Almer and that near the Gutb Minar are instances of this kind. The Muhammadan architecture of India varied at different periods and under the various dynastics, imperial and local. The carly Pathan architecture of Delhi was massive and at the same time was characterised by and at the same time was characterised by claborate richness of ornamentation. The Qutb Minar and tombs of Altamsh and Ala-ud-din Khilil are typical examples. Of the Sharqi style we have three mosques in Jaunpur with several tombs. At Mandu in the Dhar State, a third form of Saracenic architecture spring up, and we have here the Jami Masjid, Hoshang's tomb, Jahaz Mahall and Hindola Mahall as the most notable instances of the secular and Muhammadans of the Maiwa Pathans. The Muhammadans of Bengai again developed their own style, and Pandua, Maida, and Gaur teem with the rulns of the buildings of this type, the important of which are the Adina Masjid of Sikandar Shah, the Elakhi mosque, Kadam Rasul Masjid, and so forth. The Bahmani dynasty of Gulbarga and Bidar were also great builders, and adorned their capitals with impor-tant buildings. The most striking of these is the great mosque of Gulbarga, which differs from all mosques in India in having the whole central area covered over so that what in others would be an open court is here roofed by sixty-three small domes. "Of the various forms which the Saracenic architecture assumed,"
tays Fergusson, "that of Ahmedabad may
probably be considered to be the most elegant."
It is notable for its carved stone work; and the probably be considered to be the most elegant."

It is notable for its carved stone work; and the control over the excavation of ancient sites and work of the perforated stone windows in Sidi Sayyid's mosque, the carved niches of the minars of many other mosques, the sculptured Archaeology, a comprehenive and systematic Militabs and domed and parelled roofs is so exquisite that it will rival anything of the sort the result of it is manifest in the present executed elsewhere at any period. No other style is so essentially Hindu. In complete consults of the sort that it will rival anything of the sort the result of it is manifest in the present executed elsewhere at any period. No other style is so essentially Hindu. In complete consultations of old buildings. One has style is so essentially Hindu. In complete consultations of old buildings, one consultations of the sort that this was the form of architecture at Agra, Delhi, Labore and Ajmer, in order to employed by the Adil Shabil dynasty of Bija-

ifindu forms or details. The principal buildings now left at Bijapur are the Jami Masjid, Gagan Mahall, Mihtar Mahall, Ibrahim Rauza and mosque and the Gol Gumbaz. Like their predecessors, the Pathans of Delhi, the Moghuls wore a great building race. Their style first began to evolve itself during the reign of Akbar began to evolve itself during the reign of Akbar in a combination of Hindu and Muhammadan features. Noteworthy among the emperor's buildings are the tomb of Humayun, and the palaces at Fatehpur, Sikri and Agra. Of Jehangir's time his mosque at Lahore and the tomb of Itimad-ud-daula are the most typical structures. "The force and originality of the style gave way under Shah Jahan to a delicate elegance and refinement of detail." And it was during his reign that the most splendid of the Mogbul tombs, the Taj Mahal at Agra, tho tomb of his wife Mumtaz Mahall, was con-structed. The Moti Masjid in Agra Fort is another surpassingly pure and elegant monu-ment of his time.

Archmological Dopartment.—As the archmological monuments of India must attract the attention of all intelligent visitors, they would naturally feel desirous to know something of the Archeological Department. The work of this Department is primarily two-fold, con-servation, and research and exploration. None but spasmodic efforts appear to have been made by Government in these directions till 1870 when they established the Archeological Survey of India and entrusted it to General (afterwards Sir) Alexander Canningham, who was also the first Director-General of Archeology. The next advance was the initiation of the local Surnext advance was the interaction of the rocal barveys in Bombay and Madras three years after. The work of these Surveys, however, was restricted to antiquarian research and description of monuments, and the task of conserving old buildings was left to the fittul efforts of the local Governments, often without export guid-ance or control. It was only in 1878 that the Government of India under Lord Lytton awake to this doplorable condition, and sanctioned a sum of 3f lakhs to the repair of monuments in a sum of 35 takes to the repair of monuments in United Provinces, and aton appointed a conservator. Major Cole, who did useful work for three years. Them a reaction set in, and his post and that of the Director-General were abolished. The first systematic step towards recognising official responsibility in conservation matters was taken by Lord Cycon's Government, who established the seven Archmological Circles . that now obtain, placed them on a permanent footing, and united them together under the con-trol of a Director-General, provision being also made for subsidising local Governments out of imperfal funds, when necessary. The Ancient Monuments Preservation Act was passed for the protection of historic monuments and relics especially in private possession and also for State

tion and repair has converted these decayed and descenated monuments with their modern excretees into edifices of unrivalled lovell-many and another noteworthy feature of this work has been the rescus of many of these buildings of filling and so forth. The result achieved has been the rescus of many of these buildings of filling and so forth. The result achieved from profane and sacrifications uses. It is neither that the artist the result of the first property of the first prope has been the rescue of many of these building-from profune and energiegious uses. It is well-known that the superb Pearl Mosque of Jahangir In the Labore Fort contained a Government treaknown that the superb Pearl Mosque of Jahangir brought to light the remains of a palse of the in the Lahore Fort contained a Covernment treasury, and the Sleeping Hall of Shah Jahan served temple dedicated to Zornastrian seechly and as a Church for the British troops. At Bliates while a seek printers trough with the pur two mosques have been recovered, one of addition of a solid tower of the Likkerst Crip which was used as Dak Bungalow and the other rising behind the shipe. At Patra Dr. D. B. Post Office. The local England Dr. D. B. as Post Office. The local Kutcherry has now been expelled from the lovely mustid of Sidi "yld at Ahmedabad. The Cave temples at ryld at Ahmedabad. The Cave temples at pulse at Perseight. At Bernara Br. D. R. Erichinopoly are no longer codowns. Nor has Bhandarkar has exercited a temple of Varideta research work been in any way neglected of the third century B.C., which proves to be under the new order of things. A unique the oldest of all Hindu chiles in India. Among feature of the first time introduced other residences in India. under the new order of things. A unique the oldert of all Hindu chiles in India. Among feature of it for the first time introduced other results of this excavation is the new order. under the goldance and advice of Sir John Marshall has been the selentific excavation of burled
sites, such as Sarnath where Buddha preached
his first sermon, Kash or Kusinara where he
died, Saheth-Maheth the ancient Srasvasti,
as the third century B.C.

Sproner has found traces of a Maurgan palace which is an actual replies of the Arbenenian

Indian Art.

Within the last few years there has been a the direct outcome of the study of the work most interesting and promising, though some- of the best periods of Indian art. In order to what narrowly confined, revival in Indian Art. comprehend it, it is therefore necessary to Tor this, it is to be feared, scant credit is due to British educational policy in India, though the impetus has come mainly from a few Brithe and other European cuthur-lasts who have reminded cultured India of the value of its ancient artistic heritage and indicated the possibilities of revival. Each year between 6,000 and 7,000 students pass the various examinations of the four Schools of Arts maintained by the State, but until very recently those institutions have been in some respects seriously mistaken in ideal and method. View-ing their work over half a century it may be said broadly that they have paid very inade-quate attention to the traditions of Indian Art, and that in consciously or unconsciously encouraging Western influences, which the indian student could not thoroughly assimilate, they have not even been particular to choose good examples of Western art. Nor have the Schools of Arts been altogether free from the taint of commercialism; indeed, for some years one of them was in effect some-thing between an industrial workshop and an emporium for selling Indian curiosities nicely Justice to the Schools it should be added that designed to meet the taste of tourists. In they have seldom been able to attract into them members of the hereditary craftsmen class. The material they have had to work with has been unpromising. Further, even for students who might attain to conspicuous skill, there have been few openings in after-life. All this is now changing, but the im-provement began only some fifteen years ago, and it is mainly due to agencies more or less independent of the schools.

A Notable Revival.

comprehend it, it is therefore necessary to comprehend to it is therefore necessary to glance back over the history of art in India With sculpture we are here not particularly concerned, for there is no perceptible revisit in it at present; but it may be said in passics that its golden age in India was the period which produced the sculptures of Ellora 2.4 Elephanta, that in its finest examples this are was genuinely Indian, for the Gandhara scultures, which show strong Greek influence, are inferior enough to make the contention that India India owed much to Greece abourd, and that perhaps the finest "Indian" sculpture is sculpture H to be found in Java, where at Borobudge, in the eighth and ninth centuries A.D. the de-cendants of Indian emigrants wrought a last series of mighty masterpleces. As regards paintings, we begin with those at Alanta, fro-duced at intervals between the first cortury before Christ and perhaps the seventh century of the Christian era. A typical example, in which a mother and her child enphesians Buddha are presented not only with much technical skill but with tenderess of feeling may be found recognized to Carrier's book may be found reproduced in Griffith's book on Ajanta and in Str. Havel's "Indian Sculpture and Painting." These paintings are true frescoes, differing in method from the Italian in little but the use of mechanical as well as chemical combination of colours.

Practically all the work of this time has perished, and of the secular art of the period before the Moguls there is scant vestige. With the Moguls for the first time painting becomes frankly secular. Whereas a Hindu philosopher had laid it down that it was infiguitous to represent natural objects when the divinities could be made the artist's subjects, the ties could be made the artist's subjects, Islamic dislike of idolptry naturally conduced The revival which has already produced one to the development of secular painting. These notable artist, Mr. Abanindranath Tagore, is Mogul artists were Persians or others, more

Manners and Customs.

Next to the complexion of the people, which varies from fair to black, the tourist's attention in India is drawn by their dress and personal decoration. In its simplest form a Hindu's dress consists of a piece of cloth round the loins. Many an ascetic, who regards dress as a luxury, wears nothing more, and he would dispense with even so much if the police allowed him to. The Mahomedan always covers his legs, generally with tronsers, sometimes with a piece of cloth tied round the waist and reaching to the ankles. Hill men and women, who at one time wore a few leaves before and behind and were totally innocent of clothing, do not appear to-day within the precincts of civilisation and will not meet the tourist's eye. Children, either absolutely nude or with a piece of metal hanging from the waist in front, may be seen in the streets in the most advanced cities, and in the homes of the rich. The child Krishna, with all the jewels on his person, is nude in his pictures and images.

of the Hindu dress brings the loincloth nearly down to the feet. On the Malabar coast, as in Burma, the ends are left loose in front. In the greater part of India, they are tucked up behind—a fashion which is supposed to befit the warrior, or one end is gathered up in folds before and the other tucked up behind. The simplest dress for the trunk is a scarf thrown over the left shoulder, or round both the shoulders like a Roman toga. Under this garment is often worn a coat or a shirt. When an Indian appears in his full indigenous dress, he wears a long robe, reaching at least down to the calves; the sleeves may be wide, or long and sometimes puckered from the wrist to the clow. Before Europeans introduced buttons, a coat was fastened by ribbons, and the fashlon is not obsolete. The Mahomedan prefers to button his coat to the left, the Hindu to the right. A shawl is tied round the waist over the long cost, and serves as a bet, in which one may carry money or a weapon, if allowed. The greatest variety is shown in the head-dress. More than seventy shapes of caps, hats, and turbans, may be seen in the city of Bombay. In the Punjab and the United Provinces, in Bengal, in Burma and in Madras other varieties prevail. Cones and cylinders, domes and truncated pyramids, high and low, with sides at different angles; folded brims, projecting brims; long strips of cloth wound round the head or the cap in all possible ways, lugenuity culminating perhaps in the "parrot's beak" of the Maratha turban—all these fashions have been evolved by different communities and in different places, so that a trained eye can tell from the head-covering whether the wearer is a Illulu, Mahomedan or Parsi, and whether he links from Poons or Dharwar, Ahmedabad or Bhavnagar.

Fashion Variations.—Tashions often vary with elimate and occupation. The Bombay fisherman may wear a short coat and a cap, and may carry a watch in his pocket; yet, as he must work for long hours in water; he would not cover his legs, but suspend only a coloured kerchief from his watst in front. The Fathan of the cold north-west affects loose baggy

trousers, a tall head-dress belitting his statute and covers his ears with its folds as if to ker off cold. The poorer people in Bengal and Middras do not cover their heads, except when they work in the sun or must appear respectable. Many well-to-do Indians wear European dress at the present day, or a compromise between the Indian and European costumes, notably the Indian Christians and Parsis. Most Parsis however have retained their own head-dress, and many have not borrowed the European collar and cuffs. The majority of the people do not use shoes: those who can afford them wear sandals, slippers and shoes, and a lew cover their feet with stockings and boots after the European fashion in public.

Women's Costumes.—The usual dress of a woman consists of a long plece of cloth tied round the waist, with folds in front, and one and brought over the shoulder or the head. The folds are sometimes drawn in and tucked up behind. In the greater part of India women wear a bodice: on the Malabar coast many do not, but merely throw a plece of cloth over the breast. In some communities petiteosis, or drawers, or both are worn. Many Mussalman ladies wear gowns and scards over them. The vast majority of Mahomedan women are 50th, and their dress and persons are hidden by a vell when they appear in public: a few converts from Hinduisan have not borrowed the custom. In Northern India Hindu women have gradially adopted the Mussalman practice of socious. In the Dekhan and in Southern India they have not.

As a rule the hair is daily oiled, combed, parted in the middle of the head, plaited and rolled into a chignon, by most women. Among high caste Hindu widows sometimes shave their heads in imitation of certain ascetics, or monks and nuns. Hindu men do not, as rule, completely shave their heads, Mahomedas in most cases do. The former generally remove the hair from a part of the head in front, over the temples, and near the neck, and grow it is the centre, the quantity grown dependency on the fancy of the individual. Norsdays many keep the hair cropped in the European fashion, which is also followed by Parals and Indian Christians. Most Mussalmans grow beards, most Hindus do not, except in Benral band elsewhere, where the Mahomedan Infance was paramount in the past. Parals and chestians follow their individual inclinations. Hindu ascetics, known as Sadhus or Bairagis as distinguished from Sanyasis, do not clip their hair, and generally colk the uncombed hair of the head into a creet, in imitation of the following the state of the solutions.

Hindu women wear more ornaments than others of the corresponding grade in society. Ornaments bedeck the head, the ears, the nost, the neck, the arms, wrists, fingers, the waitt-until motherhood is attained, and by some even later—and the toes. Children west anklets. Each community affects its reculist ornaments, though imitation is not uncommer. Serpents with several heads, and flowers, like the lotus, the rose, and the champaka, are among the most popular object of representation in gold or allyer.

Caste Marks.—Carte marks constitute a] mode of personal decoration peculiar to Hindus, more of personal decoration positions to fitnings, especially of the higher castes. The simplest mark is a round spot on the forehead It represents prosperity or joy, and is omitted in mounting and on fast-days. It may be red. or relimited as when it is made with ground graddinged parte. The worshippers of Vishnu singaiwood paste. An aussingers at vising draw a vertical line across the spot, and as lask-limi is the godders of prosperity, it is said to represent her. A more tlaborate mark on to represent her. A more character mark on the forehead has the shape of U or V, generally the forchead has the shape of U or V, generally with the central line, sometimes without it, and represents Vichnu's foot. The worship-hers of Shiva adopt horizontal lines, made with sandalwood paste or ashes. Some Valsinavas stamp their temples, near the corners of the stamp their temples, near the corners of the eyes, with figures of Vichnu's conch and disc. Other parts of the body are also similarly Uther parts of the body are also similarly Uther parts of the some the arms and the chest lowish clay. To smear the arms and the chest with sandalwood paste is a favourite kind of the sandalwood paste is a kind of the sandalwood pas lowish clay. To smear the arms and the chest with sandaiwood paste is a favourite kind of tollet, especially in the hot season. Beads of Tulsi or sacred Basil, and berries of Rudraksha riscentrus gandrus, strung together are worn round their necks by Vaishnavas and Shalvas, respectively. The Lineavais, a Shalva sect, suspend from their necks a metallic casket containing the Linear or phallus of their god. Bairagis, accelies, besides wearing Rudraksha rosaries round their necks and matted hair, smear their bodies with ashes. Religious mendicants suspend from their necks figures of the gods in whose name they beg. Strings of coveries may also be seen round their necks. of cowries may also be seen round their necks.

Muslim derviches sometimes carry peacock's

Hindu women mark their foreheads with a red spot or horizontal line. High caste widows are forbidden to exhibit this sign of happiness, as also to deck themselves with flowers or ornaments. Flowers are worn in the chignon. Hindu women smear their faces, arms, and feet singu women smear their faces, arms, and feet sometimes with a paste of turmeric, so that they may shine like gold. The choice of the same colour for different purposes cannot niways be explained in the same way. The red liquid with which the evil eye is averted may be a substitute for the blood of the animal slaughtered for the purpose in former times. slaughtered for the purpose in former times. In many other cases this colour has no such associations. The Muslim dervish affects green, the Sittle About 10 Muslim dervish affects green. the Sikir Akali is fond of blue, the Sanyasi adopts orange for his robe, and no reason tan be assigned with any degree of certainty.

Shive —India is a land of temples, mos-ques and shrines, and the Hindu finds at every turn some supernatural power to be appeased. Shiva has the largest number of worshippers. He has three eyes, one in his forehead, a moon's crescent in his matted hair, and at the top of the coll a woman's face representing the river Ganges. His abode is the Mount Kallas in the Himalayas, from which the river takes its source. Round his neck and about his ears source. Round his neck and about his ears and limbs are serpents, and he also wears a necklace of skulls. In his hands are several weapons, especially a trident, a bow, and a twanter while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while dancing for he is very fond of this exert while the property of t

ing is attached to every part of his physical ing is attached to every part of his physical personality. The three eyes denote an insight into the part, present and future: the moon; the serpents, and the skulls denote months, years and cycles, for Bhiva is a personification. of time, the great destroyer. He is also worshipped as a Linga or phallus which represents creative energy.

Ganpat.—Ganesh or Ganpati, the controller of all powers of evil subject to Shiva, is worshipped by all sects throughout India. Every undertaking is begun with a prayer to him. He has the head of an elephant, a large abdomen, serpents about his waist and wriste, several weapons in his hands, and a piece of his tusk in one hand. He is said to have broken it off when he wanted to attack the moon for ridiculing him. The different parts of his body are also esoterically explained. His vehicle is a rat.

Purvati.-Parvati, the female energy of Shiva, is worshipped under various names and She is at the head of all female superforms. She is at the head of all female super-natural powers, many of whom are her own manifestations. Some are benign and beau-tiful, others terrible and ugly. Kall, the tute-lary delty of Kalighat or Calcutta, is one of her ferre manifestations. In this form she is black: a tongue smeared with blood projects from her caning mouth. Leades her weapons black: a tongue smeared with blood projects from her gaping mouth: besides her weapons, she carries corpses in her hands, and round her neck are skulls. Bombay also takes its name from a godders, Mumbadevi. Gouri, to whom offerines are made in Indian homes at an annual festival, is benign. On the other hand the cpidemic diseases like the plague and small-pox are caused by certain goddesses or mothers."

Vishnu, the second member of the Hindu trinity, is the most popular deity next to Shiva. He is worshipped through his several incarna-tions as well as his original personality. His home is the occan of milk, where he reclines home is the ocean of milk, where he reclines on the coils of a huge, many-headed scrpent. At his feet sits Lakshmi, shampooing his legs, from his navel issues a lotus, on which is seated Brahma, the third member of the triolty. In his hands are the conch, which he blows on the hattlefield, and the disc, with which the heads of his enemies are severed. Bound his neck are garlands of leaves and flowers, and on his breast are shining jewels. As Shiva represents destruction, Vishuu represents protection, and breast are shining jewels. As Shiva represents destruction, Vishuu represents protection, and his son is the god of love. To carry on the work of protection, he incarnates himself from time to time, and more temples are dedicated nowadays to his most popular incarnations, Rama and Krishna, than to his original personality. Rama is a human figure, with a bow in one of his hands. He is niways accompanied by his wife Sita, often by his brother Lakshmana, and at his feet, or standing before him with iolned hands, is Hanuman, the monkey him with joined hands, is Hanuman, the monkey him with joined nands, is manuman, the monkey chieftain, who assisted him in his expedition against Ravana, the abductor of his wife. Krishna is also a human figure, generally represented as playing on a flute, with which he charmed the damels of his city, esoterically explained to mean his devotees.

Brahma is seldom worshipped; only a couple of temples dedicated to bim have yet

Minor Deities.—The minor gods and goddesses and the delified heroes and herolnes who fill the Hindu pantheon, and to whom shrines are crected and worsh'p is offered, constitute a legion. Many of them enjoy a local reputation, are unknown to sacred literature, and are worshipped chiefly by the lower classes. Some of them, though not mentioned in ancient literature, are celebrated in the works of modern spirte.

The Jains in their temples, adore the sacred personages who founded and developed their sect, and venerate some of the delties common to Hinduism. But their view of Divinity is different from the Hindu conception, and in the opinion of Hindu theologians they are atheists. So also the Buddhists of Burma pay almost the same veneration to Prince Siddhartha as if he was a god, and indeed elevate him above the Hindu gods, but from the Hindu standpoint they are also atheists.

Images.—Besides invisible powers and deified persons, the Hindus venerate certain animals, trees and inanimate objects. This veneration must have originated in gratitude, fear, wonder, and belief in spirits as the cause of all good or harm. Some of the animals are vehicles of certain gods and goddesses—the cagle of Vishnu: the swan of Brahma: the peacock of Saraswati: Hanuman, the monkey, of Rama: one serpent upholds the earth, another makes Vishnu's bed: elephants support the ends of the milverse, besides one such animal being Indra's vehicle: the goddess Durga or Kali rides on a tiger: one of Vishnu's incarnations was partly man and partly lion. The cow is a useful animal: to the Brahman vegetarian her milk is indispensable, and he treats her as his mother. So did the Rishi of old, who often subsisted on milk and fruits and roots. To the agriculturist cattle are indispensable. The snake excites fear. Stones, on "Thich the image of a serpent is carved, may be

seen under many trees by the roadside. The principal trees and plants worshipped are the Sacred Fig or Pipal, the Banyan, the Sacred Basil, the Bliva or Wood Apple, the Asoka, and the Acacla. They are in one way or another associated with some delity. The sun, the moon, and certain planets are among the heavenly bodies venerated. The ocean and certain great rivers are held sacred. Certain mountains, perhaps because they are the abodes of rods and Rishis, are holy. Pebblis from the Gandaki and the Narmada, which have curious lines upon them, are worshipped in many households and temples.

Worship.—Without going into a temple, one can get a fair idea of image worship by seeing how a sepent-stone is treated under a tree. It is washed, smeared with sandal, decoated with flowers: food in a vessel is placed before tt, lamps are waved, and the worshipper goes round it, and bows down his head, or protrates himself before the image. In a temple larger bells are used than the small ones that are brought to such a place; jewels are placed on the idol: and the offerings are on a large scale. Idols are carried in public procession in palanquins or cars. The lower classes serifice animals before their gods and goddenes.

Domestic Life.—Of the daily domestic life of the people a tourist cannot see much. He may see a marriage or fumeral procession. In the former he may notice how a bridegroom or bride is decorated: the latter may shock him, for a Hindu dead body is generally carried on a few pieces of bamboo lashed together: a thin cloth is thrown over it and the body is tied to the frame. The Mahomedan bier is more decent, and resembles the Christian cofin. Some Hindus, however, carry the dead to the burial ground in a palanquin with great pomphe higher castes cremate the dead; others bury them. Burial is also the custom of the Muslims, and the Parsis expose the dead in Towers of Silence.

Indian Names.

The personal rame of most Hindus denotes I material object, colour, or quality, an animal, a relationship, or a deity. The uneducated man, who cannot correctly pronounce long Sanskrit words, is content to call his child, father, brother, uncle, or mother, or sister, as the case may be. This practice survives among the higher classes as well. Appa Saheh, Anna Rao, Babaji, Bapu Lal, Bhai Shankar, Tatacharya, Jijibhai, are names of this description, with honorific titles added. It is possible that in early society the belief in the re-birth of departed kinsmen lent popularity to this practice. Nothing could be more natural than to call a man white, black, or red; gold or silver; gen, diamond, ruby, pearl, or merely a stone; small or tall, weak or strong; a lion, a snake, a parrot, or a dog; and to name a woman after a flower or a creeper. Thus, to take a few names from the epics, Pandu means

white, and so does Arjuna: Krishna black; Bhima terrible: Kakula a mongoose: Shunka a dog: Shuka a parrot: Shringa a horn. Among the names prevalent at the present day Hira is a diamond: Ratna of Ratan a jewel: Sonu or Chinna gold: Velli or Belli, in the Dravidian languages, means white metal or silver. Men are often called after the days of the week on which they were born, and hence they bear the names of the seven heavenly bodies concerned. When they begin to assume the names of the Hindu deities, they practically enter upon a new stage of civilisation. It is doubtful whether the Animists ever venture to assume the names of the dreaded spirits worshipped by them. To pronounce the name of a devil is to invite him to do harm. If the spirits sometimes bear the names of human beings, the reason seems to be that they were originally human.

Routes between India and Europe.

The War has completely altered the sailing new railway between India and Ceylon greatly programmes of all Steamship lines maintaining increases the importance of the Colombo roule scriptes between India and Europe, and the fq Southern India. The shortest time between particulars on the following pages are merely given has a rough guide. At the time of going to press the P. & O. S. N. Company (with which is combined the B. I. S. N. Co.) are only able to announce a fortnightly service. and even those salings are irregular. Passengers are only being booked to London by sea, the Marsellies and Brindisi routes being closed.

The Indian port for the direct journey to and from Europe is Bombay. There are ordi-narily six lines of steamers by which the journey to and from the West via Bombay can be perto and from the West via Hombay can be performed, either by sea all the way, or—and in some cases only—by sea part of the way and by rall across Europe. They are the P. &. O., the Anchor Line, the City and Hall Line, and the Marittima Italiana (Italian Mail S. N. Co.), the British India line also, in pre-War days, and an occasional service to London. The Notal line stranger were available for Western Natal line steamers were available for Western passages only, the steamers salling round the Cape on their Eastward voyages. There are ordinarily other services between Calcutta and the West, by steamers salling round Ceylon, and several lines connect Colombo with Europe. Of the latter the Orient, the Messageries to London; or Markitimes (which also sailed from Bombay at fortnightly intervals before the War) and the Bibby Lines are the chief, besides the P. & O. The Bibby service extends to Rangoon. The

London and Bombay is 14 days.

The following are the latest peace time details :-- .

The P. & O.

The P. & O. steamers run weekly from Bombay and London, leaving Bombay on Bunday and London on Saturday. Alternate sailings each way are direct. In other weiki a special steamer runs from Bombay to Aden where it connects with the Australian Home-ward Mall and similarly, for the onward vo-yage, passengers and baggage and malls are transferred on alternate weeks to a freamer, at Aden which proceeds thence direct to Bombay. The P. & O. carry the postal male. The steamers call at Aden, Port Said, Marseilles, and Gibraltar. Passengers are not usually allowed to land at Aden but there is ordinarily rime for them to spend some hours ashors at Port Said and Marseilles and a shorter time at Gibraltar. Passengers may travel westward from Port Said by any of the following methods:—

By the liner to Marsellles; thence by special P. & O. express to Boulogne and so by Falkerice

The arrangements for the eastward vorset

The following are the Ticket rates from Bombay to Europe by P. & O. Line:-

	3	Single Ticket.				Return Ticket (valid 2 years).			
From Bombay (or Karachi).	1st Saloon.		1.	2nd Saloon.		1st Saloon.		2nd Saloon.	
	" A " "	В ","	C "	" A "	" B "	" A "	" B"	" C"	" A " "B"
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs. Rs.
To London by sea	900	810 ⁱ	720	660	570	1,350	1,215	1,080	990 835
To Marseilles, Malta, or Gibraltar.	840	750	660	630	540	1,260	1,125	990	945 810
To London ria Merselles, with ordinary rall ticket	042	832	762	700	610	1,461	1,320	1,194	1,085 950
To Marsellles and returning from London by sea		••'	••	1	••	1,005	1,270	1,035	967-8 532-8
To London ria Marseilles, and including Special Express (rail and sleeping car ticket).	,	908	818	788	698	1,596	1,441	1,306	1,261 1,126

Free tickets are issued to Karachi passengers by B. I. S. N. Co.'s steamers between Bombay and Karachi for either eastward or westward voyage. The transfer from the B. I. steamer to the P. & O. steamer, or vice versa, is made in Bombay harbour by launch, without going ashore. The first saloon inside cabins on the Main deck of the Mail Steamers are let at a reduced rate. First Saloon passengers are allowed 3 cwts. of personal Baggage free of Freight; Second Saloon passengers and servants 1½ cwt. each; Children over three and under 12 years of age half these weights; Ayahs and other native servants 1½ cwt. each free.

III 00.I~----

The Orient Line after the outbreak of the War began running their steamers via the Cape omitting the call at Colombo both Homeward and Outward.

Rubattino.

Monthly sallings from Bombay for Catania, Messina, Naples, Leghorn and Genoa, Messina ordinarily being reached on the 14th day, Naples on the 15th and Genoa on the 17th. The usual baggage allowances are made and baggage is conveyed free by sea from Port Said to London.

		Single.		Return (valid 2 years).		
FARES FROM BOMBAY.	First* Saloon.	Second Saloon,	Indian Servant.	First* Saloon.	Second Saloon,	Indian Servants
	Rg.	Rs.	Rs.	Rs.	Rs.	Rs.
To Catania, Messina, Maples, Leghorn and Genoa	450	350	180	675	. 525	277-5
Do. (Protestant Missionary rate). Do. (European Hospital Nurse) To London via Genoa, Turin, Paris,	400	325	::	600	::	::
Calais and Dover To London via Genos, Turin, Paris,	500-8	427		896	078	
Dieppe and Newhaven	546	417		867	659	

*Rs. 50 is charged for borth in a single borth cabin; Rs. 75 on a return ticket.

The Messageries Maritimes and Maritimi Italiana have a joint arrangement by which passengers taking return tickets may travel one way by one line and back by the other.

Natal Line.

The steamers make their eastward voyages round South Africa. Westward sallings how Bombay to Weymouth usually once a month during the season.

Fares, Bombay to Weymouth (25 days):—First class, Rs. 375 to Rs. 420, according to class of steamer and position of berth. Cheap first class tickets are issued for berths in 2, 3, and 4 berth cabins.

Bibby Line.

Two (in the season, sometimes three) sailings monthly from Rangoon, via Colombo and Marsellles, to Liverpool. Farcs from Rangoon and Colombo:—

	Single.		Return.		
· ·			1st Class, available for	1st Clar able for	s, avail- 2 years.
o	From Bangoon	From Colombo	4 months from Rangoon.	From Rangoon	From Colombo.
, <u></u>	Rs.	Rs.	Rs.	Rs.	R8.
To Marseilles	625	600	900	1,050	. 852
To London by sea returning from Liverpool	675	630	1,000	1,100	875
To London by sea returning from London			1,200	1,075	1,000
ria Marsellles. To London ria Marsellles	700	675	1,100	1,250	1,050
To Marsellles returning from Liverpool by sea.			1,000	1,125	925
To London by sea returning from Marseilles			1,000	1,125	925

Free 1st class tickets; Talaimannar-Colombo are given to passengers from South India,

Orient Line, 1

Portrict the extreme (Antichler Rein) on Proceedings from Colombia to Part Sold, Naples Were Je. Herrich at I hand in Fame to ex red inhap-

From Colombia to		July Parl Mag.		201 S35 84.		Notice Bervante	
F1 2188 - 158831)	5-10-11-1 5-10-21-1	. Iktorn - 2 years	Single.	, Betorn 2 years.	! Finrle.	ficturn 2 yran.	
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		1,005	6 0 573	0.15	}	i	
Disposition is a	{ (m) (m) (m)	1,125	eca	059	3 210	500	

Concercions for tiphets, Talaimannar-Colombe, are given to South India passengers, Tickets are inspect for native ecreants.

4 The Orient Live at present are muning their steamers may the Cape and are omitting the cell at Colombo both Homeward and Outward.

It used to be possible to obtain cheap passages, eastward or wertward, in cargo ("tramp") steamers. These are now next to impossible to secure, because as the steamers are not becomed to carry passengers, passengers have to six on as members of the crew, and the tecent extension of the Employers Liability. Act then involves the ship's owners in liability. to comprehation to them for a variety of cauter.

Indian Train Service.

The distances and reliway fares from Bombay to the principal centres of other parts of India are as follows, the teales now sunning somewhat more slowly (for economy's sales) than in rormal times :-

page 1	Miles	let Clars.	2nd Class.
Delhi, B.B. & C.I. Railway, viz new Nagda-Muttra direct route Delhi, G. I. P. Railway, via Acra Simla, via Delhi Calcutta, G.I.P. from Bombay, via Jubbulpore & Allahabad Calcutta, G. I. P. from Bombay, via Naspur Madray, G.I. P. from Bombay, via Raichur Labore, via Delhi Labore, via Delhi	865 (27½ hours) 057 (30½ hours) 1,137 1,340 1,223 704 1,162	Rs. a. 81 2 81 2 118 3 113 31 105 31 74 8 109 0	R 40 9 40 9 60 1 56 10 1 52 10 1 37 3 54 8

THE SUEZ CANAL.

The annual report of the Suez Canal Company was pany published in May, 1916, states that the authorised to charge by its concession of 1856 total receipts for 1915 amounted to 93,228,0981, were 10 francs a ton, charged on the gross (27,229,123), a decrease of 28,293,1386, register tonage. To these objections were soon (21,075,725) as compared with 1914. The register tonage. To these objections were soon raised and as the result of an international excess of revenue over expenditure, including Conference at Constantinople in 1873 the dues the amount brought forward, was 73,021,3751, when fixed at 10 frances per net register ton (£2,20,855), as against 89,539,8931, (£3,214,395), when fixed at 10 frances per net register ton (£2,402,715), and to carry forward the balance of 11,453,488f. (£168,129), which compares with and those of the Canal Company in 1883 agreed 18,703,606. (£748,140) brought in. The distinction of the first personal company in 1883 agreed that in 1885 the dues should be reduced to 95 tribution had the effect of bringing the dividend on each share to 100f. 28c., which, with interest to lowered on a sliding scale as the canal dividend and a net return of 120f. (£4 16s.).

should be applied in reducing the rates until provision for a depth of 40 feet throughout they were lowered to 5 francs a ton. Under this arrangement dues were fixed at 7% francs Under per ton at the beginning of 1906, and at the outbreak of war were as low as 64 francs a ton, where they remained until October, 1916, when they were raised by 1 iranc a ton.

Traffic in War Time .- The number of vessels which passed through the canal during the year 1916 was 3,110, of which 2,388 carried the British flag, against a total of 3.708 in the previous year, the net tonnage for the year showing a decrease of 2,940,808 as compared with that of the preceding year. The tomage of German vessels decreased from 3,352,287 in 1913 to 2,118,946 in 1914, and disappeared entirely in 1915 and 1916.

Troops carried through the canal numbered 235,441, as compared with 119,812 in 1915, and the number of civilian passengers amounted to 45,743, a decrease of over 40,000 compared with the preceding year.

For the half-year ended June 1917 the total traffic was 4,257,000 tons, as compared with 10,344,675 in the corresponding period of 1914, net diminution of tonnage for this period as compared with the previous corresponding half-year amounted to 2,000,924, the reduction in commercial shipping being 2,121,081 tons, against an increase of 129,877 tons in ships used by the Italian, Greek, and Japanese Governments for military purposes.

mprovement Schemes.—It was announced in 1914 that from and after January 1st, 1915, the maximum draught of water allowed to ships going through the Suez Canal would be increased by 1ft., making it 30ft.

The maximum permissible draught of ships using the Canal was 24.4 feet in 1870; in 1890 ships drawing 25.4 feet could make the passage; and during the following 24 years the increase has been at the average rate of about 1 foot every six years, thus bringing the maximum draught authorized to 29 feet.

The scheme of improvement adopted by the Company on the recommendation of the Inter-national Consultative Committee of Works, the British representatives on which are Sir William Matthews and Mr. Anthony Lister, is a comprehensive one, and the details suggest that it will meet the needs of the big ship.

A 40 feet Channel.—The declared policy of the Canal Company in regard to the decpening of the Canal is to offer a slightly greater depth of water than that available in ports east of Suez. It is claimed that, with the exception of Sydney, there is no eastern port which at low tide has a greater depth of water than that now provided in the Canal throughout the full length of nearly 105 mfles. In any case the work in hand should meet the needs of any ship likely to be built for the eastern trade during the next few years.

When the Canal was opened in 1869, the width was 72 feet and the depth about 26 feet 2 inches. In June, 1913, the width at a depth of 32 feet 8 inches had been increased to a minimum of 147 feet 6 inches over a length of about 85 miles; and to a width of 323 feet over a distance of about 20 miles. The latest scheme makes

and for a widening up to 198 feet 8 inches in the south section, and the cutting of an appro priate number of sidings in the north and central sections, where a minimum width of 147 fect 6 inches is believed to be sufficient for the requirements of the immediate future.

The work of enlarging the capacity of the Canal presents no special difficulty on the engineering side. A good deal of sand is occasionally driven into the channel at Port Sald dwing storms, but a remedy for this will be found in extension of the west breakwater by about 2,700 yards at a cost of over £6,000,000. The construction of this extension, which has been in hand for the past two years, is making satisfactory progress. The Suez Roads are being adequately dredged in accordance with an agreement between the Egyptian Government and the Company.

Almost up to the end of 1915 the works for extending the jetty to the west of Port Bald, works of capital importance for the protection of the entry to the Canal, were pushed on influence of the canal of the can want of hydraulic lime, the manufacture of artificial rocks for this jetty was interrupted. The submarine foundations in stone and rubble of the new fetty were, as a matter of fact, com-pleted to a length of 2,500 metres; the protective blocks were laid for 1,040 metres, and cemented for over 800 metres. The protection of the Channel is thus secured, and there is no need for any apprehension as to its future.

The Canal in war time.—On October 2914, the British Government issued a notification in the following terms to the representatives of foreign maritime Powers in London, and asked them to communicate it to their

"Since the outbreak of war certain ships of enemy countries have remained in the Sues Canal.

" Some of these vessels were detained by the Egyptian Government on account of hostile acts committed in the Canal; some because there was reason to apprehend that they contemplated hostile acts; others, though per-fectly free, have refused to leave the Canal in spite of the offer of a free pass, thus disclosing their Intention to use the ports of the Canal merely as ports of refuge, a measure which is not contemplated by the Suez Canal Convention.

" His Majesty's Government do not admit that the Conventional right of free access and nee of the Canal enjoyed by merchant vessels implies any right to make use of the Canal and its ports of access for un indefinite time to escape capture, since the obvious result of permitting any such course must be greatly to incommode and even to block the use of the incommode and even to block the use of the ports and Canal by other ships, and they are consequently of opinion that the Egyptian Government are fully justified in the steps which they are taking to remove from the Canal all enemy ships which have been long enough in the Canal ports to show clearly that they have no intention of departing in the ordinary way, and that they are putting the Canal and its ports to a use which is inconsistent with the use of the Canal in the ordinary way by other shipping."

Travel in India.

titles for total with the findlicent that it was a loss that as a country of pinacity. The fact of little feeting. Sing the East which in Page of Interfeeting and the East which in Page 1 feeting a spirit of letters of the East which in Page 1 feeting a feeting and the East which is page 1 feeting a feeting and the East which is page 1 feeting a feet or introduction on a sum of the party in the first the process in energity the same route and th the same ap ol as the mall. A describing the tended the test frate feducing limits

are married the wa more trained touter of in ha and Costin with a plant of results failed. The Ir than Railway's Provide factions, the trained that the sea t like on the trunk likes ununflowed by the leaves of themes, and the hidden hatel has grown into a really comfortable camena. repl.

In the torting states, which extends from In the forming reason, which reasons from November to March, there is the attraction of a price climate. It is never very hot in the North Indiced it is really each, it is always in the North Indiced it is really each, it is about fine and finely and brackets. country in the april to which that chaire country in the world to which that criefly the fourist arrives the real solution commerce the fourist arrives the real solution commerce. the tourist arrives the real "Indian summer."
Then there is its infinite variety. Indian is no corress a nation and never will be. Its profits are wide as the Poles assuder, each has its own art, its own architecture, its own customend its own civilisation. A certain sujerand its own civilisation, a certain sujeries are made to some civilisation of the correction of the correction of the certain superies and the correction of the certain superies are constituted in the certain superies are constituted in the certain superies and the certain superies are constituted in the certain superies are constituted in the certain superies are constituted in the certain superies are certain superies and the certain superies are constituted in the certain superies are certain superies and the certain superies are certain s field to emblance runs through each; beneath lies a never nilng ratiely which ago cannot wither nor custom state.

The Grand Tour People coments India for the Brettime to often ask Where shall I with custom nowadays to sneer at there who show the braten tracks, but the visitor who slow the braten tracks, but the visitor who had any part of the ortholox journey across that the possibilities of sthe best centre for the possibilities of the best centre for the possibilities of the best centre for the ortholox part of the possibilities of sthe best centre for the possibilities of the best centre for the possibilities o or the prettime to often asking there man for its Well, wherever else the tourist may for the theory its, he should leave out, he should mid each out, he should leave out, it is the mid each often at he diseast. Tour

Process programs, a temp in it his was possible the accident. Moreon capital of the Province, and the second of the control of the control of the control of the control of the second of the control of the containing the examples of Mahomedans and Jain ar hirecture, thence to Abn for the Armers Jain tempes of Dilwam, and on to Ayener, Jain and Agn. The other by the Ayener, Jain and Agn. Rollway carries the togetal part the Western cheeks by a the togetal part the Western cheeks by a the terrist over the Western that by a the terrist over the Western that by a superior remain military to Graffier, whose seed foregreen that it easerb mountain milway to Grallor, whose rock further rises like a giant buttledity from the 1840, and so on to Agra Off the giorita of the Taj Valasi, Agra Lord, and the descried of the Taj Valasi, Agra Lord, and the descried of the Taj Valasi, Agra Lord, and the descried of the Taj Valasi, Agra Lord, and the Grantof City of Latchpur Startit were superconduction to at a latchpur startit were superconduction to spal. Another easy state hads to Delhi that amortise collection of cities, dominated to the little Ridge where British valout belt to to the Russe where british valour acts the mutiness bords at lay, and finally drote them from the city by a feat of arms uncurrently to the first bords condortably to Benard, but the first bords condortably to Benards.

ingian time grant connections to permit of a recurrent to Carotta, with the opportunity of an eventual to Carotta, if the spirit moves, of an excursion to vawingor, it me spirit moves.
The great charm of the Grand Tour is that it rivals the best that India can show. This toute has the additional advantage that it nistin with any dispersions which the time and putter of the traveller may permit. No one who can spare the time should fail to push northwards from 1 bills to Peshawar, where northwards from Delin to Pesnawar, where the firster of the army keeps watch and ward over the Khyler, and up the drad Pass to the exite where the lost of All Masjid territo-way to all transfers. Calcutta is the best carried point for Darkeling though unfor-clarities point for Darkeling though unforway to all layed as. Calcutts is the best starting point for Barjeding, thought unfortunately the magnificent mountain ranorame traible from their is often obscured at this visible from their is often obscured at this rate of the service of mail steamers native often. A line service of mail steamers had to humms and one of the unforcettable hads to humms and one of the unforcettable native open. A nine service of mattacaners had to Burma, and one of the unforgettable for morris of the East is a voyage down the Irrawnddy from Illamo or Mandalay to Prome, frawnddy from Illamo or Mandalay to Prome, frawn of the form Cakutta, or rich Agulu, either direct from Cakutta, or hy Burma, is an easy ratio to Madens and hy Again, either direct from Calcutta, or rick Burma, is an easy route to Madrus and by mary of Madura and Trichinopoly, with their may of Madura and Trichinopoly, with their methods I Hindu temples, back to Dombos, or methods Tuticorin to Colombo. But indeed on through Tuticorin to Colombo. But indeed on the possibilities of expanding this tour are the possibilities of expanding this tour are routless. Hombay is the best centre for the rolless. Hombay is the best centre for the Elora and Ajanta. Calcutta is only a short Elora and Ajanta. Calcutta is only a short distance from Puri the one Indian temple where there is no caste, and perhaps the most

SPECIMEN TOURS.

A number of specimen tours in India are given below. They are taken from one of Merers. They. Cook & Son's publications, from which firm further information may be obtained. The

raveller will also find he can obtain assistance from the principal Shipping Agents and Railway ompanies, or from Messrs. Cox & Co., Messrs. Grindlay & Co., and Messrs King, King & Co.

	1st Cl	LES.	2nd Class Rail, 1st Class Steamer.
THOSE POSITIVE TO CAT CITED!	1		Rs. a.
FROM BOMBAY TO CALCUTTA. Via the North-West Provinces to Calcutta (including side trip	Rs.	8.	hs
from Calcutta to Darjeeling). Tour I.—From Bombay per B. B. & C. I. Rallway via Ahmedabad, Abu Road (for Mount Abu), Ajmer, Jaipur, Delhi, Agra, Cawnpore, Lucknow and Benares to Calcutta, thence to Darjeeling, and back to Calcutta.	Deg.	•	133 3
Tour II.—From Bombay per G. I. P. Railway via Itarsi, Gwalior, Agra, Deihi, Tundia Junction, Cawapore, Lucknow and Benares to Calcutta, thence to Darjeeling, and back to Calcutta	266	1 13	133 7
FROM BOMBAY TO COLOMBO.			
Via the North-West Provinces, Calculta and Southern India to Colombo (including side trip from Calculta to Darjeeling).			
Tour III.—From Bombay as in Tour No. I (via B.B. & C. I. By, Jaipur and the North-West Provinces) to Calcutta side trip to Darjeeling and back to Calcutta, thence via Khurda Road, for Puri (Jugganath), Madras, Tanjore, Trichinopoly, Madura, Danushkodi and Talaimannar to Colombo	423	8	212 13
TOUR IV.—From Bombay as in Tour No. II (via G. I. P. Ry., Itarsi, Agra and the North-West Provinces) to Calcutta, side trip to Darjeeling and back to Calcutta, thence as in Tour No. III to Colombo (via Southern India)	421	1	213 1
Via the North-West Provinces, Calcutta (including Darfeeling), Burma and Southern India.			;
Tour V.—From Bombay as in Tour No. I (ria B. B. & C. I. By., Jaipur and the North-West Provinces) to Calcutta, side trip to Darjeeling and back to Calcutta, thence British India Steamer to Bangoon, Bail to Mandalay. Irrawaddy Steamer to Prome, Ball to Rangoon; British India Steamer to Madras, Bail via Tanjore, Trichinopoly, Madura to Danushkodi; Steamer to Talaimannar and Bail to Colombo	585 1	.3	399 12
Tour VI.—From Bombay as in Tour No. II (via G. I. P. By., Itarsi, Agra and the North-West Provinces) to Calcutta, thence as in Tour No. V to Colombo	587	6	₄₀₀ 0
FROM BOMBAY TO RANGOON.	U		,
Via the North-West Provinces and Calcutta to Rangoon (including a tour in Burma, also including a side trip from Calcutta to Darjeeling).			
Toun VII.—From Bombay as in Tour No. I (via B. B. & C. I. Ry., Jajpur and the North-West Provinces) to Calcutta side trip to Darjeeling and back to Calcutta, thence British India Steamer to Rangoon, Rail to Mandalay, Irrawaddy Steamer to Prome, Rail to Rangoon	417	9	288 14
Tour VIII.—From Bombay as in Tour II (via G. I. P. Ry., Itarsi, Agra and the North-West Provinces) to Calentta, side trip to Darjeeling and back to Calentta, thence British India Steamer to Rangoon. Rall to Mandalay, Irrawaddy, Steamer to Prome, Rall to Rangoon.	418	2 /	289 2

		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
•	1st Class.	2nd Class Rail, 1st Class Steamer.
FROM CALCUTTA TO BOMBAY. Via the North-West Provinces.	Rs. a.	Rs. a.
Tour IX.—From Calcutta via Benares, Lucknow, Cawnpore, Tundla, Agra, Delhi, Rowari, Jalpur, Ajmer (for Udalpur), Abu Road (for Mt. Abu), Ahmedabad and Baroda to Bombay. Tour X.—From Calcutta via Benares, Moghal Serai, Cawnpore, Tundla,	165 5	82 11
Agra, Delhi, Rewari, Jaipur Ajmer (for Udaipur), Abu Road (for Mt. Abu) Ahmedabad and Baroda to Bombay	167 7	83 13
TOUR XI.—From Calcutta via Benares, Moghal Scral, Cawnpore, Tundla, Agra, Gwallor and Itarsi to Bombay. Tour XII.—From Calcutta via Benares, Moghal Scral, Cawnpore, Delhi,	110 1	74 9
Muttra, Agra, Gwalior and Itarsi to Bombay	167 14	83 15
CIRCULAR TOUR FROM CALGUTTA. Tour XIII.—From Calcutta ria Benares, Lucknow, Cawnpore, Tundia, Agra, Bandikui, Jaipur, Delhi, and Allahabad to Calcutta	101 1	95, 0
Extensions, Via Southern India to Colombo. Tour XIV.—From Bombay via Poona, Hyderabad, Wadl, Balchur, Madras, Tanjore, Trichinopoly, Madura, Danushkodi, and Talaimannar to Colombo Tour XV.—From Bombay via Poona, Hyderabad, Wadl, Guntakal, Bangalore, Erode, Trichinopoly, Madura, Danushkodi, and Talaimannar to Colombo	151 6 148 5	77 13 74 12
Extensions to above Tours. From Ajmer to Udalpur and return From Abu Road to Alcount Abu and return, one seat in Tonga (This excursion is strongly recommended, the ecenery being very beautiful) From Delhi to Lahore and return via Umballa and Amritaar From Delhi via Bhatinda, Ferozepore to Lahore, returning via Amritaar Umballa to Delhi	34 12 7 0 58 2 56 15 101 0	17 6 29 2 28 8 50 8
From Calcutta to Darjeeling and return From Colombo to Kandy and return From Kurda Road to Puri (Jagganath and return)	9 0 5 4	6 0 2 10

(All fares subject to change without previous notice.)

INDIA.

LUCKNOW.-Royal, Carlton, Imperial, Civil and Military.
MADRAN -- Hotel D'Angelis, Connemars, Brind's.

POONA .- Napier, Poona, Connaught. RANGOON.—Strand, Royal, Minto Mansions RAWAL PINDI—Flashmans, Imperial.

LIST OF HOTELS IN The following list of hotels is largely based | on information kindly supplied by Messrs. Thos. Cook & Son, Bombay:— AGRA.—Cecil, Laurie's Great Northern, Metro-pole, Carlton. ARMEDABAD.—Grand, Empire. ALLAHABAD.—Central, Grand. BANGALORE .- West End, Cubbon. BENARES -- Clark's, Hotel de Paris. BOMBAY.-Taj Mahal Majestic, Great Western, Apollo, Watson's. CALCUTTA -- Great Eastern, Grand, Spence's, Continental CAWAPORE.-Clvil and Military. . DELHI.—Cecil, Maiden's, Civil and Military. Goa.—Crescent. GULHARG .- Nedon's. GWALIOR -- Gwallor Hotel.

Hotel.

SECUNDERABAD-Montgomery's HOTELS IN PRINCIPAL HILL STATIONS :-COONOOR -- Glenview. DARJEELING .- Woodland's, Mount Grand (Rockville), Drum Druid. MAHABLESHWAR -- Race View. MATHERAN .- Rugby. MOUNT ABU .- Rajputana. MURREE.—Powell's, Rowbury's, Viewforth. MUSSOORIE.—Charleville, Savoy, NAINI TAL.—Metropole, Grand. HYDERABAD (Deccan) .- Montgomery's. JEYPORE -- Jeypore, Kaisar-i-Hind, The New OOTAGAMUND.—Sylk's, Centre, Firgrove. PAGMARM.—Hill JUBBULPORP. -- Jackson's. Sinia.—Contorphon's, Grand, Louries, Long. wood, Faletti's, Royal. KARACHI.—North-Western, Killarney LAHOBE.—Nedou's, Cecil.

MEERUT .-- Empress. PESHAWAR -- Flashmans.

An Indian Glossary.

Aprani.-Excise of liquors and drugs.

Ain.—A timber tree. Terminalia Tomentosa.

AMIL.—A subordinate executive official un-rative rule; in Sind the name is still appli-l to Hindus of the clerical class.

ANICUT.-A dam or welr across a river for rigation purposes, Southern India.

ANJUMAN,-A communal gathering of Maho-

Armys,-Believed to be a corruption of LPHONSE, the name of the best variety of lombay mango.

AUS .- The carly rice crop, Bengal; syn. hu, Assam.

AVATAR, -An incurnation of Vishnu.

BABU,-(1) A gentleman in Bengal, corresonding to Pant in the Decean and Konkan, 2) Thence used by Anglo-Indians of a clerk or secountant.

BABUL-A common thorny tree, the bark of which is used for tanning, ACACIA ARABICA. native boat (Buggalow). Bagnia.—(1) A 2) The common pond heron or paddybird.

BAIRAGI .- A Hindu religious mendicant.

BAJRA or BAJRI.-The bulrush millet, a mmon food-grain, Perkisetum typhoideum: yn. cambu, Madras.

BAND,-A dam or embankment (Bund).

BANYAN.--A species of Og-tree. FIOUS

BERGALENSIS. BARSAT .- (1) A fall of rain, (2) the rainy

DASTI.—(1) A village, or collection of huts, (2) A Jain temple, Kanara. BATTA.—Lit. 'discount,' and hence allow-

ances by way of compensation.

BAZAR .- (1) A street lined with shops, India proper; (2) a covered market, Burma,

BER.-A thorny shrub bearing a fruit like a small plum, ZIZYPHUS JUJUBA.

BEWAR.—Name in Central Provinces for shifting cultivation in jungles and hill-sides; syn. taungys, Burma; Jhum, North-Eastern

BHADOI.-Early autumn crop, Northern India, reaped in the month Bhadon.

BHANG .- The dried leaves of the hemp plant, CANNABIS SATIVA, a narcotle.

BHANWAR .- Light sandy soil; syn, bhur. BHARAL,-A Himalayan wild sheep, Ovis NAHURA.

BHENDL-A succulent vegetable (HIBISCUS ESCULENTUS).

BHUNA.-Chaff, for fodder.

Butt.—The spirit of departed persons.

BiDRI.-A class of ornamental metalwork, in which blackened pewter is inlaid with silver, named from the town of Bldar, Hyderabad.

BIGHA.—A measure of land, varying widely; the standard bigha is generally five-eighths of an acre.

BIR (BID).—A grassland—North India.

BLACK COTTON FOIL -A dark-coloured soil, very retentive of moisture, found in Central and Southern India.

BOARD OF REVENUE.—The chief controlled revenue authority in Bengal, the United Provinces and Madras.

Bor .- See Ber.

BRINJAL-A vegetable, SOLATON MELOS-GENA; syn. egg-plant.

BUNDER, or bandar.—A harbour or port.

Bunus.—A bastion in a line of lattlements. Canjax .- Palm leaves, used for thatch.

CHABUTRA.-A platform of mud or plastered brick, used for social gatherings, Northern , India.

CHADAR.—A sheet worn as a shawl by men and sometimes by women. (Chudder.)

CHAITYA.—An ancient Buddhist chapel.

CHAMBAR (CHAMAE) .- A caste whose trade is to tan leather.

CHAMPAR.-A tree with fragrant blossoms, MICHELIA CHAMPAGA.

CHAPATI.-A cake of unleavened bread. (ChaupattL)

CHAPRASI.—An orderly or messenger, Northern India; syn. pattawala, Bombay; peon.

CHARAS.—The resin of the hemp plant, CANNABIS SATIVA, used for smoking.

CHARPAI (charpoy)—A bedstead with four legs, and tape stretched across the frame for a mattress.

CHAUDHRI.—Under native rule, a subordi-nate revenue official; at present the term is applied to the headman or representative of a trade gulld.

CHAUKIDAR.-The village watchman gad rural policeman.

CHAUTH.-The fourth part of the land revenue, exacted by the Marathas in subject terri-

CHELA .- A pupil, usually in connexion with religious teaching.

CHHAONI.-A collection of thatched buts of . barracks; hence a cantonment. umbrella, (2) domed CHHATRI.—(1) An building such as a cenotaph.

Note.—According to the Hunterian system of transliteration here adopted the vowels have the following values:—a cither long as the a in 'father,' or short as the u in 'cut,' e as the ain 'gain,' i either short as the i in 'bib,' or long as the ce in 'feel,' o as the o in 'bone,' u either short as the oo in 'good,' or long as the oo in 'boot,' al as the i in 'mile,' an as the ou in 'grouse. This is only a rough guide. The vowel values vary in different parts of India in a marked degree. The consonantal values are too intricate for discussion here.

CHIEF COMMESSIONER .-- The administrative head of one of the lesser Provinces in British India.

CHEER-A kind of partridge, CACCABIS CHECAL.

CHEG.—The Bombay name for the fruit of ACHEAS SAPOTA, the Sapodilla plum of the West Indies.

CHINAR -- A plane tree, PLATANUS ORIEN-TALIS.

CHINKARA .- The Indian gazelle, GAZELLA

BENNETTI, often called 'ravine deer. CRITAL.-The spotted deer, CERVES AXIS.

Cholast .- Name in Southern India for the large millet, Androposon Sononun; syn. jowar.

Choli.-A kind of short bodice worn by women.

CHUNAM, chuna .- Lime plaster.

CHECLE.—The area in charge of—(1) A Con-servator of forests; (2) A Postmaster or Deputy Postmaster-General; (3) A Superlutending Engineer of the Public Works Department.

SURGEON.-The officer in medical charge of a District,

COUNTABLE .- An offence for which the culprit can be arrested by the police without a

COLLECTOR.-The administrative head of a District in Regulation Provinces corresponding to the Deputy Commissioner in non-regulation

COMMISSIONER.—(1) The officer in charge of a Division or group of Districts; (2) the head of various departments, such as Stamps, Exciso, etc.

COMPOUND.—The garden and open land attached to a house. An Angio Indian word perhaps derived from "kumpan", a hedge.

CONSERVATOR.—The Supervising Officer in charge of a Circle in the Forest Department.

COUNCIL BILLS.—Bills or telegraphic transfers drawn on the Indian Government by the Secretary of State in Council.

COUNT.—Cotton yarns are described as 20's, 30's, etc., counts when not more than a like number of hanks of 840 yards go to the pound

COURT OF WARDS .- An establishment for managing estates of minors and other disqualifled persons.

CEORE, karor Ten millions.
DAFFADAR A non-comm DAFFADAR.—A non-commissioned officer in the army or police. native

DAH OR DAO .- A cutting instrument with no point, used as a sword, and also as an axe, Assam and Burma.

DAK (dawk).-A stage on a stage coach route. Dawk bungalow is the travellers' bungalow maintained at such stages in days before railways came.

DAKAITI, DACOITY .- Robbery by five or more

persons. DAL -A generic term applied to various

pulses. DAM .- An old copper colu, one-fortieth of a rupee.

DARBAR.—(1) A ceremonial assembly, especially one presided over by the Ruler of a State. hence (2) the Government of a Native State.

DARGAH.-A Mahomedan shrine or tomb of a saint.

DARL, Dhurrie-A rug or carpet, usually of cotton, but sometimes of wool.

DAROGHA .- The title of officials in various departments; now especially applied to sub-ordinate controlling Officers in the Police and Jail Departments.

DARWAN .- A door-keeper.

DARWAZA .-- A gateway.

DEBOTTAR .- Land assigned for the upkeep of temples or maintenance of Hindu worship.

DEODAR .- A cedar, CEDRUS LIBARI OF C. DEODARA.

DEPUTY COMMISSIONER, -The Administrative head of a District in non-regulation areas corresponding to the Collector in Regulation Provinces.

DEPUTY MAGISTRATE AND COLLECTOR .- A subordinate of the Collector, having executive and judicial (revenue and criminal) powers; equivalent to Extra Assistant Commissioner in non-regulation areas.

DESAL.-A revenue official under native (Maratha) rule.

DESU.—(1) Native country; (2) the plains as opposed to the hills, Northern India; (3) the plateau of the Deccan above the Ghats.

DESMYTH .- A petty official under native (Maratha) rule.

DEVA.-A delty.

DEVASTHAR.-Land assigned for the upkeep of a temple or other religious foundation.

DHAK .-- A tree, BUTEA FRONDOSA, with bril-Bant orange-scarlet flowers used for dyeing, and also producing a gum; syn. palas, Bengal and Bombay; Chhiui, Central India.

DHAMANI.- A heavy shighram or tonga drawn by bullocks.

DHARMSALA .- A charitable institution provided as a resting-place for pilgrims or travellers. Northern India.

DHATURA-A stopelying drug, PASTUOSA.

DHENKIL-Name in Northern India for the lever used in raising water 🖢 syn. picottah.

Driont.-A washerman.

DHOTI .- The loincloth worn by men.

District .- The most important administrative unit of area.

Division.-(1) A group of districts for administrative and revenue purposes, under a commissioner; (2) the area in charge of a Deputy Conservator of Forests, usually corresponding with a (revenue) District; (3) the area ander a Superintendent of Post Offices; (4) a group of (revenue) districts under an Executive Engineer of the Public Works Department.

DIWAN.-The chief minister in a Native State.

Diwani.—Civil, especially revenue, adminis-tration; now used generally in Northern india of civil justice and Courts.

DOAR .- The tract between two rivers, especially that between the Ganges and Jumna.

DET CEOP .- A cron grown without artificial regication.

DEY EATE. The rate of revenue for unitrigated land.

DUN .- A valley, Northern India.

ERRA-A small two-wheeled conveyance

drawn by a pony, Northern India.
EXTRA ASSISTANT COMMISSIONER.—See puty Magistrate and Collector.

PARIR.—Properly an Islamic mendicant or

FAMINE INSURANCE GRANT.—An annual provision from revenue to meet direct famine expenditure, or the cost of certain classes of public works, or to avoid debt.

FARMAN,-An imperial (Mughal) order or grant.

FAUJDARI.—Under native role, the area under a Faujdar or subordinate governor; now used generally of Magistrates' Criminal Courts.

FINANCIAL COUMISSIONER.—The chief controlling revenue authority in the Punjab, Burma and the Central Provinces,

GADDI, Gadi.-The emblon or throne of (Hindu) royalty.

GANJA.-The unfertilised flowers of the cultivated female hemp plant, CANNABIS SATIVA,

GAUR.—Wild cattle, commonly called 'blson', DOE GAURUS.

GAYAL.-A species of wild cattle, Bos PROX-TALLS, domesticated on the North-East Frontler; syn. mithan.

GHAT, Ghaut .- (1) A landing-place on a river: 2) the bathing steps on the bank of a tank; (3) a pass up a mountain; (4) in European usage, a mountain range. In the last sense especially applied to the Eastern and Western Ghats.

GHATWAL A fenure-holder who originally held his land on the condition of guarding the neighbouring hill passes (ghats), Bengal.

GHI, Ghee,—Clarified butter. GINGELLY.—See TIL.

Godown -- A store room or warehouse, Anglo-Indian word derived from the Malay 'gadang,

GOPURAM.-A gateway, especially applied to the great temple gateways in Southern India.

GOSAIN, Goswami .- A (Hindu) devotee; lit., one who restrains his passions,

GOSHA.—Name in Southern India for "caste" women; lit. one who sits in a corner"; syn. parda.

GRAM.—A kind of pea, CICER ARIETINUM. In Southern India the pulse DOLICHOS BIFLORUS is known as horse gram.

GUARANTEED.-GUARANTEED.—(1) A class of Native States in Central India; (2) A class of railways.

GUNI .- The red seed with a black 'eye' of ABRUS PRECATORIUS, a common wild creeper, used as the official weight for minute quantities of oplum 12th TOLA.

GUE, Goot .- Crude sugar ; syn. Jacgery, southern India; tanyet, Burma.

GURAL .-- A Himalayan goat antelope, CEMIS GORAL.

Ger.-(1) A Hindu religious preceptor: (2) a schoolmaster, Bencal.

HAJ .- Pligrimage to Meeca.

HAIR-A mahomedan who has performed the haj. He is entitled to dye his beard red.

HARIM -A native doctor practising the Mahamedan system of medicine.

a mendicant who has no creed, but often loosely one to whom everything is lawful food. HALALKHOR .- A sweeper or scarcuscus; III.

HALL.-Current. Applied to coin of Natire States, especially Hyderabad.

HAMAL-(1) A porter or vooly, (2) a how: servaut.

HEMEA. (HIJEAH)-The em dating from the flight of Mahomed to Mecen, June 20th, 622 A.D.

HILSA .- A kind of fish, CLUTER HISEL-HIT.—An iron pinnacle placed on a pagoli

' In Burma. HUKKA, HOOKAIL-The Indian tobacco pir-

IDGAH.—An enclosed place outside a found where Mahomedan services are held on festivals known as the Id., etc.

INAM .- Lit. 'reward'. Hence revenue free or at a reduced rate, often subject to service. See DEVASTRAT, SARANJAM, WATAS.

INUNDATION CANAL -A channel taken of from a river at a comparatively high level which conveys water only when the river is lo flood.

JACK FRUIT -- Fruit of ARTOCARIES ISTE-GRIFOLIA, VCF. PHANAS.

JAGGERY, jagri.-Name in Southern Inlia for crude sugar; syn. gur.

Jagie.—An assignment of land, or of the revenue of land held by a Jagirdar.

JEMADAR.—A native officer in the army or

Juil.—A natural lake or swamp, Northern India; syn. bil, Eastern Bengal and Assam.

JHAD.—A religious war undertaken by Musalmans.

JIEGA .- A council of tribal ciders, North-West frontier.

JOWAR.—The large millet, a very common food-grain, ANDEOPOGON SORGHUM, or SORG-HUM VULGARE; syn. cholam and Jola, in Southem India.

JUDICIAL COMMISSIONER.—An officer exercising the functions of a High Court in the Central Provinces, Oudh, and Sind.

KACHERI, kachahrl.—An office or office building, especially that of a Government official

KADAR, karbi.—The straw of jowari (q. r.)a valuable fodder.

KAJU, kashew .- The nut of ANACAEDIUM OUCIDENTALE largely grown in the Konkan

KAKAR.—The barking deer, CERVULUS MUNT-

KALAR, kallar.-Barren land covered with salt or alkaline efflorescences, Northern India.

KAMARDAND, Commerbund .- A walsteloth, or l

KANAT.-The wall of a large tent.

KANGAR .-- A kind of portable warming-pan, carried by persons in hashmir to keep themecirce warm.

KANKAR.-Nodular limestone, used for metalfing roads, as building stones or for preparation of lime.

KANS .- A coarse glass which spreads and prevents cultivation especially in Bundelkhand. SACCHARUM FRONTANEUM.

KANUNGO .- A revenue Inspector.

KARAIT.-A very venomous snake, Bux-GARCS CANDIDUS OF CAERULEUR.

Kardharl.—A monoger.

KARIZ.-Underground tunuels near the skirts of hills, by which water is gradually led to the surface for irrigation, especially in Baluchistan.

KARKUR .-- A clerk or writer, Bombay,

KARMA.—The doctrine that existence is conditioned by the sum of the good and evil actions in past existences.

TARMAN. - See Patwari.

Kazı,—Under native rule, a judge admi-nistering Mahomedan law. Under British rule, the kazi registers marriages between Mahomedans and performs other functions, but has no powers conferred by law.

KHALASL—A native fireman, sallor, arti-

Heryman, or tent-pitcher.

KHALSA .- Lit. ' pure.' KHALSA.—Lit. 'pure.' (1) Applied especially to themselves by the Sikhs, the word Khalsa being equivalent to the 81kh community: (2) land directly under Government as op-posed to land alienated to grantees, etc., Nozthern India

Knanni, candy.—A weight especially used for cotton bales in Bombay-equivalent to 20 mds.

KHARAR-In Bombay of any portion ran assessed survey No. which being uncultivable is left unassessed.

KHARIT.—Any crops sown just before or during the main S. W. monsoon.

Knas.—Special, in Government hands. Khas tahasildar, the manager of a Government estate.

KHASADAR.-Local levies of foot soldiers, Afghanistan.

KHAS-KHAS, Kus-Kus.—A grass with scented roots, used for making screens which are placed in doorways and kept wet to cool a house by evaporation, ANDROPOGON SQUAR

Kueppa, kheda.—A stockade into which wild elephants are driven; also applied to the operations for catching.

KHICHADI, kelleree .- A dish of cooked rice and other ingredients, and by Anglo-Indians specially used of rice with fish.

KHILAT .- A robe of honour.

Knurba.—The weekly prayer for Maho-medaus in general and for the reigning sovereign in particular.

KILLA—A fort.
KINCOB, kamkhwab.—Silk textiles brocaded with gold or silver.

KODALL-The implement like a hoc or mattock in common use for digging; syn mamuti, Southern India.

KONKAN.-The parrow strip of low land between the Western ghats and the sen.

Kos.—A variable measure of distance, usually estimated at about two miles. The distance between the kos-minurs or milestones on the Mughal Imperial roads averages a little over 2 miles, 4 furlongs, 150 yards,

Kor. - Battlements.

Korm.-A large house.

KOTWAL.-The head of the police in a town, under native rule. The term is still used in Hyderabad and other parts of India.

Korwall.-The chief police station in a head-quarters town.

Kulkarni.—Seo Patwari,

KUMBRAR,-A potter.

Kuran,-A big grass land growing grass fit for cutting,

Kyari.—Land embanked to hold water for rice cultivation.

KTAUNG-A Buddhist monastery, which always contains a school, Burma.

LAKH, lac .- A hundred thousand.

LAMBARDAR.-The representative of the cosharers in a zamindari village, Northern India.

LANGUE .- A large monkey, Semnopithecus entellus.

Lascar, correct lashkar.—(1) an army, (2) in English usage a native Sailor.

LAT.-A monumental pillar.

LATERITE.—A vesicular material formed of disintegrated rock, used for buildings and making roads; also probably valuable for the production of aluminium. Laterite produces a deep brichord soil.

LINGAN,-The phallic emblem, worshipped as the representative of Shiva.

LITCHL-A fruit tree grown in North India (Liren curvessis).

LONGYI,-A waisteloth, Burma,

LOTA .- A small brass water-pot.

Luxui, loongi-(1) A turban; (2) a cloth worn by women.

MADRABA .- A school especially one for the higher instruction of Malfomedans.

MAHAJAN.—The guild by Hindu or Jain mer-chants in a city. The head of the Mahaj ansel, the Nagarabeth (q. v.).

MARAL.—(1) Formerly a considerable tract of country; (2) now a village or part of a village for which a separate agreement is taken for the payment of land revenue; (3) a department of revenue, e.g., right to catch elephants, or to take stone; (4) in Bombay a small Taluka under a Mahalkari,

MAHANT,-The head of a Hindu conventual establishment.

MAHARAJA .-- A title borne by Hindry ranking above Raja.

MAHSEER, mahasir.—A large carp, BARBUS-on (lit. 'the big-headed').

MARUA.—A tree, BASSIA LATIFOLIA, producing flowers used (when dried) as fool or or distilling liquor, and seeds which furnish

MAIDAN .- An open space of level ground; the park at Calcutta.

MAJOR WORKS,-Irrigation works for which reparate accounts are kept of capital, revenue, and interest

MAKTAR.—An elementary Mahomedan school.

MALGUZAR (revenue payer).—(1) The term applied in the Central Provinces to a co-sharer in a village held in ordinary proprietary tenure; (2) a cultivator in the Chamba State.

MALL-A gardener.

MANLATDAR.-The officer in charge of a taluka, Bombay, whose duties are both executive and magisterial; syn. tahasildar.

MANDAP, or mandapam .- A porch or pillared hall, especially of a temple.

MANGOSTEEN.—The fruit of GARCINIA MANGOS-73.5A.

MARKHOR -- A wild goat in North Western India, CAPRA FALCONERI.

MASJID .- A mosque, Jama Masjid. principal mosque in a town, where worshippers collect on Fridays.

Massad.—Seat of state or throne, Maho- of Hindu and Jain Merchants in a city. medan; syn. gaddi.

MATEL-A Hindu conventual estabilish. ment.

MAULYL-A person learned in Muhammadan L217.

MAUND, ver. Man.—A weight varying is lifferent localities. The Ry. maund is 80 lbs. weight varying in Maya .- Sanskrit term for delusion.

MEHEL OF MAHAL .- A polace.

MELA .- A religious festival or fair.

Minnan.—The niche in the centre of the western wall of a mosque.

MIMBAR.—Steps in a mosque, used as a pulpit. MINAR .- A pillar or tower.

MINOE WORKS.-Irrigation works for which regular accounts are not kept, except, in some mares, of capital.

Mistel—(1) a foreman, (2) a cook.

Mossoon.—Lit. ('season,' and specifically 1) The S. W. Mossoon, which is a Northward xtension of the S. E. trades, which in the Norhern Summer cross the equator and circulate nto and around the low pressure area over forth India, caused by the excessive heating of the land area, and (2) The N. E. monsoon, thich is the current of cold winds blowing down luring the Northern winter from the cold land reas of Central Asia, giving rain in India only a S. E. Madras and Ceylon through moisture equired in crossing the Bay of Bengal, and massing across the equator into the low pressure reas of the Australasian Southern summit,

MUFASSAL, mofussil.—The outlying parts of District, Province or Presidency, as distinjuished from the head-quarters (Sadr).

MURADDAM, muccadum.-A representative T headman.

MURRITAR (corruptly muchilar).-(1) Akga practitioner who has not got a sanad, and theretore cannot appear in court as of right; (2) at? perron holding a power of attorney on belaff if another person.

MCKHTIARKAR.—The officer in charge of a taluka, Sind, whose duties are both executive and magisterial; syn. tahasiidar.

MURII. "release."-The perfect rest attained by the last death and the heal reabsorption of the individual rout into the world-soul, \$73. METANA, MORSHA,

MUNG, mug.-A pulse, Pulseouts Rami-TES: syn. maz, Gujarat.

Musi.—(1) A tall grees (Secondarus arsis) in North India, from which mate are woven, and the Brahman sacted thread worn ; (2) the said thread.

Mussin,-A teacher of Hindustant or any Perso-Arabian language,

MUNSIF.-Judge of the lowest Court with civil jurisdiction.

MURCH, moorum.-Gravel, used for metalling roads.

NACHANI-NABU-See RAGI.

NAGARKHANA, Nakkarkhana,-A place where drums are besten.

NAGARSHETH. - The head of the trading gull?

NAHL-Assistant or Deputy.

NAIR.—A leader, hence (1) a local chieftalo, in Southern India; (2) a native officer of the lowest rank (corporal) in the Indian army.

NAT .- A demon or spirit, Burma

NAWAR.-A title borne by Muslmans, corresponding roughly to that of Raja among Madus,

NAZAR, nazarana.-A due paid on succession or on certain ceremonial occasions.

NET ASSETS.—(1) In Northern India, the rent or share of the cross produce of land taken by the landlord; (2) in Madras and Lower Burma, the difference between the assumed value of the crop and the estimate of its cost of production.

NEWAR .- Broad cockney moven across bedsteads instead of iron slats.

NGAPI.-Pressed fish or salted fish pasts, largely made and consumed in Burms.

NILGAL -An antelope, BOSELAPHUS TELEO-CAMELUS.

NIM, neem .- A tree, MELIA AZADIRACHTA, the berries of which are used he dyeing.

NIRVANA. -- See MUKII.

NIZAM .- A title borne by the ruler of Hyderabad State.

NIZAMAT. -- A sub-division of a Native State. corresponding to a British District, chiefly in the Punjab and Bhopal.

NON-AGRICULTURAL ASSESSMENT.—Enhanced assessment imposed when land already assessed as agricultural is diverted to use as a building site or for industrial concerns.

NON-COGNISABLE .- An offence for which the culprit cannot be arrested by the police without a warrant,

Non-occupancy tenants.—A class of tenants i with few statutory rights, except in Oudh, beyond the terms in their leases or agreements.

NON-REQUEATION.—A term formerly applied to certain Provinces to show that the regulations of full code of legislation was not in force in

NULLAH, NALA .- A ravine, watercourse, or drain.

OCCUPANCY TENANTS .-- A class of tenants with special rights in Central Provinces, in United Provinces.

PADACK .- A well known Burmere (PTEROCARPUS sp.) from the behaviour of which the arrival of the moneoon is prognosticated.

PADDY.-Unbugked rice.

Paga,-A troop of horses among the Mara-

Page.-A tracker thieves of strayed or stolen animals.

PAIGAR,-A tenure in Hyderabad State.

PAIK.—(1) A foot soldier; (2) in Assam former-ly applied to every free male above sixteen rears.

PAIREE.—The name of the second best voriety of Bombay mango, distinguishable from the Arnus (7. c.) by its pointed tip, and by the colour being less rellow and more green and red.

PALAS. -- Sec DHAR.

PALEI .- A palanquin or litter.

PAN.-The betci vinc. PIPE BETLE.

PARAB.—A public place for the distribution of water, maintained by charity.

PARABADI.—A platform with a smaller plat-form like a dovecot on a centre pole or pillar built and endowed or maintained by charity, where grain is put every day for animals and

PANCHAMA .- Low caste, Southern India.

PANCHATAL (1) A committee for management of the affairs of a caste, village, or town; (2) arbitrators. Theoretically the panchayat has five (panch) members.

PANDIT.—A Hindu title, strictly speaking applied to a person versed in the Hindu scriptures, but commonly used by Drahmans. In Assam applied to a grade of Inspectors of verses and the common of the primary schools.

PANSUPARI.—Distribution of PAN and SUPARI (7. v.) as a form of ceremonial hospitality.

PARDA, purdah.—(1) A veil or curtain; (2) the practice of keeping women secluded; syn. gosha.

PARDESL-Foreign. Used in Pombay especially of Hindu servants, syces, &c., from North India

PARGANA.—Fiscal area or petty sub-division of a tabell, Northern India. PASHX.—The fine wool of the Tibetan goat.

PASO.-A waisteloth.

PAT, put,-A stretch of firm, hard clay.

PATEL A village headman, Central and Western India; syn. reddi, Southern India, gaonbura, Assam; padhah, Northern and Eastern India; Mukhi, Guzarat Paridan .- A co-sharer in a village, Gujarat, PATTAWALLA .- See CHAPRASI.

Parwart.-A village accountant; syn. karnam, Madras; kulkarni, Rombay Deccan; talati, Gujarat; shanbhoz, Mysore, Kanara and Coorg; Mandal, Assam; Tapedar, Elad.

Prox.-See Chaprasi.

PESHKASH .-- A tribute or offering to a supe rior.

PRULAY, (Pllow) .- A dish of rice and other ingredients, and by Anglo-Indians used of chicken with rice and spices,

PHULKARI .- An embroidered sheet: 114 flower-work.

paira.-A copper or bronze coin PICE, worth one farthing; also used as a generic term for money.

PICOTTAIL.—A lever for raising water in a bucket for irrigation, Southern India; syn. dhenkul or dhenkull, or dhikli, Northern India.

PIPAL -A sacred tree, FICUS RELIGIOSA.

Pre.—A Mahomedan religious teacher or saint. PLEADER.-A class of legal practitioner.

Pongri.—A Buddhist monk or priest, Burma.

POSTIN, poshteen.—A coat or rug of sheep-skin tanned with the wool on, Afghanistan.

PRAST .- An administrative sub-division in Maratha States, corresponding to a British District (Boroda) or Division (Gwallor); also in Kathlawar,

PRESIDENCY .- A former Division of British India.

PROTECTED.—Forests over which a considerable degree of supervision is exercised, but less than in the case of 'reserved' forests.

PROVINCE.—One of the large Divisions of British India.

PUJA .-- Worthip, Hindu.

PUJARI.—The priest attached to a temple. PUNDIT.—See Pandit.

PURANA-Lit. 'old' Sanskrit (1) applied to certain Hindu religious books, (2) to a geologi-cal 'group'; (3) also to 'punch-marked' coins.

PURCEUT-A domestic chaptain or spiritual gulde, Hindu.

Pwe.--An entertainment, Burma.

RABL-Any crop sown after the main South West monsoon.

RAGI (ELEUSIKE COROCANA) .-- A small millet used as a food-grain in Western and Southern India; syn. marua, Nagli Nachni.

RAJA.—A title borne by Hindus and occasionally by Musalmans, corresponding roughly to that of Nawab which is peculiar to Musalmans.

RANOSHI.—A caste whose work is watch and ward in the village lands and hence used of any chankidar (q. v.).

RANA .- A title borne by some Rajput chicis, equivalent to that of Raja.

RANL-The wife or widow of a Raja.

RAO .- A title borne by Hindus, either equivalent to, or ranking below, that of Raja,



TALUE, taluka.—The estate of a talukdar in Oudh. A revenue aub-division of a District, in Bombay, Madras and Mysore; syn.

TALUNDAR.—A landholder with peculiar tenures in different parts of India. (1) An official in the Hyderabad State, corresponding to the Magistrate and Collector (First Talukdar) or Deputy Magistrates and Collectors (Second and Third Talukdars); (2) a landholder with a peculiar form of tenure in Gujarat.

TANTAM, tumtum,-A North Indian name for a light trap or eart.

TARK.—In Southern, Western, and Central India, a lake formed by damming up a valley; in Northern India, an excavation holding water.

TAPEDAR -- See PATWARI.

TARAL.—A moist swampy tract; the term repecially applied to the tract along the foot of the Himalayas.

Tani, toddy—The sap of the date, palmyra, or coccanut palm, used as a drink, either fresh or after fermentation. In Northern India the juice of the date is called Sendhi.

TASAR, tussore.—Wild slikworms, ARTHERARA PAPHIA: also applied to the cloth made from their slik.

TATIA.—Lath and paper models of the tombs of Hasan and Husain, carried in procession at the Muharram (estival; syn. tabut.

Teak.—A valuable timber tree in Southern and Western India and Burma, Tectona GRANDIS.

TELEGRAPHIC TRANSFERS,-See Council bills.

TRAGE, thuggee.-Robbery after strangulation of the victim.

THARUR.—(1) The modern equivalent of the caste name Kshattriya in some parts of Northern India; (2) a title of respect applied to Brahmans; (3) a petty chief; (4) a hill tribe in the Western Ghats.

THAMEN.-The brow-antiered deer, Burma, CERVUS ELDI.

TRANA.-A police station, and hence the circle attached to it.

THEA.—(1) Ceremonial anointing on the forehead; (2) vaccination.

TIRAL—The English pickage (of which the word is a corruption.)

word is a corruption.)

Til.—An oliseed, Sesamum indicum; also known as gingelly in Madras.

TINDAL, tandel.—A foreman, subordinate officer of a ship.

oncer of a snip.

Tipal, Teapoy.—A table with 3 legs, and hence used of any small European style table.

Told.—A weight equivalent to 180 grains (trov).

TONGA.—A one or two horsed vehicle with a covered top, syn, SHIGHRAM.

kdar in Thine.—Wild cattle found in Burma and to of a the southward, Bos sondatous; syn. healing

Unit .- A term in famine administration, denoting one person relieved for one day.

URIAL.—A wild sheep in North-Western India, Ovis vianci.

Unio, Udid .- A pulse, 'black grain,' (Phascolus mungo).

UMBAR.-A wild pig-(FICES GLOMERATA).

USAR.—Soil made barren by saline efforescence, Northern India.

VARIVATDAR.—Officer in charge of a revenue sub-division, with both executive and magisterial functions. Baroda; syn. tabsildar.

VAID or baidya, Bengal.—A native doctor practicing the Hindu system of medicine.

VARIL-(1) A class of legal practitioner; (2) an agent generally.

VIHARA .-- A Buddhist monastery.

VILLAGE.—Usually applied to a certain area demarcated by survey, corresponding roughly to the English parish.

VILLAGE UNION.—An area in which local affairs are administered by a small committee.

WADA or WADL—(1) an enclosure with houses built round facing a centre yard; (2) private enclosed land near a village.

WAEP.-A Muhammadan religious or charitable endowment.

WAO .- A step well.

WATAN.—A word of many senses. In Bombay Presidency used mostly of the land or cash allowance enjoyed by the person who performs some service useful for Govt, or to the village community.

WAZIE.—The chief minister at a Mahomedan court.

WET RATE.—The rate of revenue for land assured of irrigation.

You.—A Hindu ascetic who follows the yoga system, a cardinal part of which is that it confers complete control over the bodily functions enabling the practiser, for instance to breathe in through one nostril and out at the other.

YUNANI.—Lit. Greek; the system of medicine practised by Mahomedans.

ZAMINDAR .- A landholder.

ZAMINDARL—(1) An estate; (2) the rights of a landholder, zamindar; (3) the system of tenure in which land revenue is imposed on an individual or community occupying the position of a landlord.

ZANANA.—The women's quarters in a house hence private education of women.

ZIARAT.—A Mahomedan shrine, North-Western Frontier.

ZILA, -A District, .

healthiness of the southern site, the medical | Looking from the eastern end of the forum

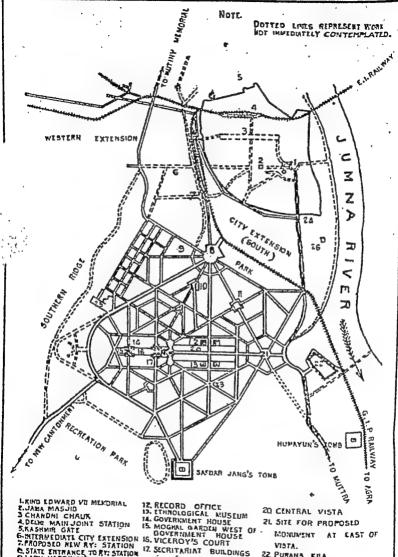
the fact that in December, 1912, Sir Bradford will be its gardens and parks flanked by the Leslie, an engineer with a distinguished Indian general buildings belonging to the Viceregal career, had read a paper before the Indian seatate. Beyond these again, on the ridge itself, section of the Royal Society of Arts in London, will be a spacious amphitheatre to be made Leslie, an engineer with a distinguished Indian career, had read a paper both the careful of the Royal Society of Arts in London, in which he set forth plans for building the new capital on the northern site and producing a fine water effect by a treatment of the river Jumna. This paper aroused considerable attention in England, and its publication synchronised with some letters and articles in the press in India expressing a preference for the northern site. The latter voiced a natural attraction to the north site which the Committee themselves experienced on their first visit to Delhi, and cnunciated some predelictions which the Committee had at one time felt and later abandoned. The Town Planfelt and later abandoned. The Town Planfelt in the rillway station, the post office and in the rallway station, the post office and in the rallway station, the post office and in the cathedral at its southern extensity. felt and later abandoned. The Town Planning Committee, therefore, undertook to review once more, and in greater detail, the arguments for and against the northern site. They came to the conclusion that:—"The soil is poor on the northern eite as compared with the southern. The southern site is already healthy and has bealthy surroundings. The northern site even after expenditure on sanitary requirements will never be satisfactory. If the northern site is to be made healthy, this involves going outside the site itself and making the neighbourhood healthy also. The building land to the sonth is generally good. On the norther to be used at all if has in places to be raised at considerable cost. There is no really suitable healthy site for a cantonment in proximity to a city on the northern site. The exicences of fitting in the requirements to the limited area of the northern site endanger the result of placing a city on the northern site changer. The result of placing a city on the northern site is argument. The result of placing a city on the northern site is conducted the site is already and the south is generally good. On the success of a lay-out as a whole and tend to make for cramping and bad arrangement. The result of placing a city on the northern site conducted the buildings of the Oriental Institute, the sluggest of the Committee to be the creation and the residences of the European tration and the residences of the

Final Town-Planning Report.—The final tration and the residences of the European report of the Town-Planning Committee, clerks, with a plan of the lay-out, was dated 20th March, 1913. The central point of interest in the lay-out, with gives the moili of the whole in Government House, the Council the ground destined for the residences of the Chamber and the large blocks of Secretariats. Members of Council, the Secretaries and other This Government centre has been given a medicia of the Government of India. Chamber and the large blocks of Secretariats. Hembers of Council, the Secretarias and other position at Raisina hill near the centre of the new city. Advantage is taken of the height to this hill and it is linked with the high ground the belind so as to appear a spur of the ridge its well adapted for a poli-course, while the reft. Behind the hill a raised platform or forum would be built. This will be fanked by the large blocks of Secretariat bulldings and terminated at its western end by the mass of Government House and the Council Chamber, with its wide flight of steps, portice and form. The forum will be approached by dome. The forum will be approached by and south sides. The axis of the main avenue cast of the Secretariat buildings where a parkway width of 440 feet north and south sides. The axis of the main avenues are those running drapat nearly due cast of Government House.

neathiness of the southern site, the medical and sanitary advantages of which are overwhelming when compared with those of the mental centre and where the great stairways northern site."

Report on Northern Site—In the same month the Town-Planning Committee presented their second report, which dealt with the northern site. This had been elicited by the fact that in December, 1912, Sir Bradiord Leslie, an engineer with a distinguished Indian Leslie, an engineer with a distinguished Indian

cord Office. To the south-west of the railway station will lie the houses of the local adminis-



C. STATE ENTRANCE TO RY: STATION BLADY HARDINGES COLLEGE & HOSPITAL FOR WOMEN 1Q JANTAR MANTAR II. UNIVERSITY

(IN THO BLOCKS) IR GOVERNMENT COURT S GREAT PLACE

22 PURANA KILA 23 CATHEDRAL SITE 24 DELM GATE 23 TAL-KATORA GARDEN

ZE FEROZ SHAH KOTLA

The report material territor programming The fight on the parties of the processes as a constitute of the parties of the constitute of the constitute of the structure to the an elemental fature of the layers of the present that it is not a fature of the front to the properties of the front to the first to be entirely when it is too the Secretariat is to be tuill on the rock of any to deal with the first to the first of the first to be consistent in to be a strong to the first ty the Consultant have for the properties of the approach to Government House it is not to be a strong to the first terminal the secretarial is to be a salied conversely formula the approach to Government. House it is not to be a salied conversely formula the approach to constructed. are to do at with it. The timb lines of the manuscription of the Secretarial is to be award an imported by the Committee have for the purpose behind the Secretarial is to be been an epically Constructed. The suppose a saled causeray forming the approach to Government and the difficulty comment. House, and the difficulty comment lines, and the difficulty comment for the interest of the secretarial in the first processing the sale of the secretarial in the secretarial form of the secretarial in the beautiful that in the secretarial is to be also be a secretarial in the secretarial in the beautiful that in the secretarial in the beautiful that in the secretarial in the beautiful that in the secretarial is to be also be a secretarial in the secretarial in the beautiful that in the secretarial in the secretarial in the secretarial in the beautiful that in the secretarial in the secretar when it the part of the set, we are at this term too detailed the could be Som to the all the ries. in a divini m of the exteting Agra Del'it Cloud. Haffe at to a live drawn ea twant of Himay un's gordi and firm a little at 2 the erretters of a new theoreti station, year the eye of the prowhen the rotated states, he are the efficiency of the pro-position of the factors, as other important positions of the first the programm of the erasping-outlief the Belld and Ajmen Gates of the city for the purpose of the extension of Old Belld.

North light proposed to give effect to the the Town Manning Committee; and it is pro- live deem towness foot of each block is marked

mails of Indramat.

Temporary Copies.—For the use of the Convergence of the Land during the period of the buildingsof the new capital a period that will have to be extended oning to the conditions. created by the narmon and has been espected along the Alli or Hoad, between the present civil dation of Delhi and the Ridge. The early idea that many of the officials should live under canvas had to be given up, and there are now tempo-rary offices and resignates. The architecture and method of construction are similar to those and meshod of construction are similar to these adopted in the exhibition buildings at Allahabad in 1910; but the buildings are expected to outlast the transitional period for which they are intended. They will subsequently be an arest of some value, the site they occupy becoming a suburb of the capital.

Chief Commissioner Appointed.—On October 1, 1912, by proclamation, there was constituted an administrative enclave of Delhi under a Chief Commissioner, Mr. W. M. Hailey, I.C.E. The Delhi district of the Punjab, from which this enclave was entirely taken, consisted of three tabells or subdivisions and

intered the good of a applical marriag from the englars was formed by the control tabell. File of the first of a filler families from the entities was a first by the emptod taked.

More there is the faller falled a first of and stated this, and to all the soft period the soften of the soften and the filler of the soften of the A title withing and he might of the steep speed from a series of the series of the estitle for the most is the enter the first of the steep speed from a meaning for one for the estitle for the most is the enter the first of the many effect, in the first of the lands of the terms of 1911, the estimates which it is the property of the steep series of the enterty of

The Architects' Designs -At the Royal Academy to 1916 these were exhibited drawtops by Mr Intyins and Mr. Bater, which, though If My Annym and My Josef, which, which, who a providing a leading in the nature of what are called Warrant Designs, show how the architectural problems of the new capital are to be wived tenenglished by them as one block, s'eying way (at a grablent of one in maj) which leads tron a semi-ritular plazza, the "Great Court" to the level of the Secretariat build-Ices.

At the summit of this stoping way is the "Government Court", a space of about 1,100 feet in fearth, and 400 in brewith, fanked to the north and south by the two blocks of Secretariat buildings. These buildings have been designed by Mr. Baker and the aggregate cost will be some \$750,000. According to the the norm Hambler termiller; and it is pro-by deep located out over the central bath that little more suit be done in this direct sists. In the centre of each block is a dome, the mid of the central sists and clongs to the central bath in marks an active for the central sists and clongs to the central bath in the same balls in the same sistent marks an a Conference hall with a splic of cloak and reception rooms. Each block contains three floors: in the lowest are motor garages, go-downs, and record rooms: in the middle floor are the offices of Members, Secretaries and other officers : in the top floor are cierks' rooms. esential feature of the design, and one which rets the character of the whole building, is the provision of logglas and received gateways or exedence giving views through to the fountain courts situate in the interior of the blocks. The verandah so familiar in Indian buildings is allogether about. The architect relies for control of temperature on thick external walls, together with the thick window thutters adopted so widely in Southern Europe, and the wide chajja characteristic of Oriental buildings.

Between the north and routh Secretariat blocks, is the way into the "Viceroy's Court"—the raised causeway afready referred to—the did not be of the court is about 600 feet in breadth and 1,300 feet in length; it will be treated with grass and waterways and low trees; and should form a dignified approach to the final group of buildings

At a point midway in the causeway, at which will be erected a column presented by the Maharajah of Jalpur, roads lead off to the north and south, forming alternative lines of approach to Government House.

One thus reaches the portico of Government House. This portico is raised some twenty feet above the causeway and fifty feet above the surrounding country. The house itself centres round the great Durbar Hall, a domed structure which dominates the scheme of the buildings surrounding it. Grouped round the Durbar Hall are the State rooms and great stairways from the entrance courts on the north and south sides. In the right wing is the Chamber of the Legislative Council of the Governor-General and offices for its Members. In April 1912, the Under Secretary of State Indicated in Parliament the decision that this Chamber should be attached to the residence of the Governor-General. It has, therefore, been included in the design of Government House, but it has been assigned a separate approach through a spacious avenue of its own. The left wing contains the private suites. In the rear of the house will be a raised garden, walled and terraced after the manner of the Moghuls, and behind that again, on the level of the surrounding country, a park which will contain the staff houses and quarters. The park will lead up to the rocky slopes of the Ridge which closes in the vista on the west. The house, which has been designed by Mr. Lutyens, will, with its attached quarters, garden and park, and with the Legislative Council wing cost approximately £500,000.

Style of Architecture.—There had been a prolonged "battle of the styles" over Delhi and if these designs gave satisfaction to neither of the extreme and opposed schools of thought, they clearly showed an endeavour to apply, with due regard for Indian sentiment, the spirit and essence of the great traditions carchitecture to the solution of structural problems conditioned upon an Indian climate and Indian surroundings and requirements. To use the language of the architects themselves, it has been their aim "to express, within the limit of the medium and of the powers of its users, the ideal and the fact of British rule in India, of which the New Delhi must ever be the monument."

The inspiration of these designs is manifestly Western, as is that of British rule, but they combine with it distinctive Indian features without doing violence to the principles of structural fitness and artistic unity. Much will depend upon the resourcefulness and ability of the Indian artificers themselves whom the Government of India proposes to bring together in Delhi to give expression, by their decorative work, to the best traditions of skilled Indian craftmanship.

Cost of the Scheme.—It was at first tentatively estimated that the cost of the new capital would be four million sterling and that sum was given in the original despatch of the Government of India on the subject. A revised estimate was given by H. E. the Viceroy in Council in March 1914. That estimate is as follows:—

- (a) Salaries and Allowances, Rs. 70,18,700.
- (b) Travelling Allowances of Officers 12: Establishments, Rs. 6,30,000.
- (c) Supplies, Services and Contingends, Rs. 3,78,600.
- (d) Works Expenditure, (1) Building, Rs. 3,50,87,200, (2) Communicative, Rs. 29,91,800, (3) Parks and Publimprovements, Rs. 27,34,500, (1) Electric Light and Power, Rs. 43,40,70, (5) Irrigation, Rs. 37,49,000, (6) Waia Supply, Sewerage, Drainage, etc. Rs. 73,77,900. (7) Purchase of Tock and Plant, Rs. 35,50,600, (8) Survy Camps and General Preliminaty Expenditure, Rs. 42,82,100, (9) Maintenance during Construction, Rs. 20,09,000.
- (e) Acquisition of Land taken FA. Rs. 36,48,200.
- (f) Other Miscellaneous Expenditure, Rs. 6,000.

Deduct anticipated recovery from tools and plant, Rs. 10,00,000.

These figures when added up make an aggergate total of Hs. 7,67,04,800, or 55,113,600,
but said His Excelency, "as we are anxioute
face our liabilities for starting the new City, to
the fullest extent possible we consider it necesary to make a special provision for contingacies and unforcseen expenditure in excess of
the usual provision that has been made of a
per cent, on the works outlay, by adding a sum
of one and a half crores or £1,000,000. We
have accordingly a very large reserve to medfuture possibilities, which we are not able to
forcesee at present. I should add that the
expenditure of this additional crore and a half
con unforeseen contingencies will be strictly
controlled by the Government of India and a
part of it spent unless absolutely necessary.
On the other hand the project estimate contains certain items such as land, residence,
water supply, electric power, irrigation, on
which recoveries in the form of rent or taxe
will in addition to meeting current expenditure partially at any rate cover the interest on
capital outlay, while there are other items on
which some return account of the sale of leases,
general taxes, and indirect receipts may be
expected." A re-allocution of the details of
this estimate, effected in 1916-17, while varying
the provision under sub-heads, does not are in-

Progress of the work.—The construction of New Delhi is making satisfactory progress, having regard to the curaliment of the Budget allotment, in consequence of the war.

Much of the 1915-16 grant was expended on the many preliminaries required for transforming the rough site into a fine city by levelling, making roads, digging foundations, collecting material, and manufacturing bricks. A portion of the Indian clerks quarters and the menials quarters have been completed, and bungalows have been provided for the occupation of the works staff. Experimental bungalows for the higher officials, to be built in the neighbourhood of Government House, are being put in hand, and are expected to be ready for occupation 1918.

Meanwhile the central point of interest in the ling fund for the proposed Cathedral Church, in iplan has been given careful detailed consideration by the Government and the architects.
The basements of Government House and the large blocks of Secretariats by which it will be flanked have been completed; aubstantial progress has been made with the side court tof the Secretariat buildings, and the raised Court between the Secretariat and Government House is so far advanced that the tree planting and provision of waterways is about to be taken in hand. An indication of the progress at the Governmental centre on Raisina Hillwas seen in the Royal Academy, where the status of their Majestes in Coronation robes, which are to be placed in tront of Government House, have been exhibited. That of the King, by Mr. Mackenna, is the gift of the Maharaja Schudia of Gwallor, and that of the Queen, by Sir George Frampton, is the gift of the Maharala of Bikanir. The keen interest of the raing princes in the transfer of the capital, which is very welcome to them, is further shown in the gift by the Maharaja of Jaipur of the commemorative column in the contral avenue. The column, surmounted by the Star of India, will be well seen from the "Great Place" leading to the central avenue.

Two Cathedral Schemes.—In October 1913 a letter was published in The Times from the Bishop of Calentia on the provision of a Cathedral at Delhi. He appealed for £50,000 in addition to any grant given by the Government, and quoted in his letter the following statement of approval by the King-Emperor: "I heartily approve of the project to build a Cathedral in the new city of Delhi. I trust that the appeal for the provessery under may meet with a cene. for the necessary funds may meet with a generous response, so that in due time the capital of India may possess a Cathedral which in design and character will testify to the life and energy of the Anglican Church and be worthy of its architectural surroundings both of days gone ed, and the Government of India also promised by and of those to come." His Majesty subto recommend the Secretary of State a grant scribed £100 and the Queen £50 to the fund.

The Indian Church Ald Association have rewould come to 121 lakbs. The proposal is still ceived several contributions towards the build- under consideration.

response to the appeal of the Bishop of Calcutta. Cheques may be sent to the Secretary, Indian Church Ald Association, Church House, West-minster, S. W. and crossed Lloyds Bank, St. James's Street, S. W.

A Roman Catholic Cathedral is also projected and Father Paul Hughes, O.M.C., has been touring India collecting money for the Cathedral Fund.

Suggested War Memorial.-Suggestions have been made for completing the central avenue, sited upon Indrapat, by a stately colounade, entered by three large gateways, to commemorate the Indian haroes of the war. The separate bays would be utilized for distinct memorials, regimental or communal, so that Hindu and Mahomedan, Sikh and Gurkha, Jat and Mahratta would have their respective niches.

Soultary Improvements-While the work on the new city has been going forward various improvements in the existing Delhi have been carried out and the sanitary conditions in parti-cular have been much improved. The fly cular have been much improved. The fly nulsance which was extremely bad in Deltal has been much reduced, and other schemes have been formulated as the result of a sanitary survey which embraced the whole of the city. The most tangible results of these effects is seen in the consistent fail in the death-rate, and the acknowledged reduction in the amount of sickness in Dolhi.

Higher College for Chiefs.—It was proposed during 1914 that a higher college for Chiefs should be extablished at Delhi and in this connexion a conference of Chiefs and Political Officers was hold at Delhi, in March, at which the Viceroy presided. It was subse-quently announced that subscriptions offered towards the college amounted to about ten and a half lakhs, various recurring sums were promis-

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(MOSTLY ANNUAL)

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The customs revenue is mainly derived from the general import duty, certain special duties such as those on arms, liquors, sugar, petroleum and fobacco, and an export duty or General import duties, which were abolished in 1882, were reimposed in 1894, since which the general rate of duty on commodities imported into British India by sea has been 6 pet ad valorem. Cottom was exempted in 1894 when the general duties were received; in 1894 at 5 per cent duty ad valorem was imposed on imported cottom goods and yarns, while any duty of 5 per cent was imposed on all yarns of counts above 20 spun at power mills in India; in February 1896 cottom yarns and threads imported or manufactured in India waterior manufactured in India at power mills. The products of hand looms are The gross revenue from Imports, salt excluded, in 1915-16, was Rs. 7,35,31,000. The estimator revenue from this source for 1916-17 is Rs. 8,80,20,000.

The Chief alterations in the tariff, which came into force on March 1, 1914 as follows:—

Goods which before have been dutiable at the rate of 5 per cent, now pay 72 per cent, adrivatelinery, which (with the exception of cartridge-making machinery and machines works) inimal or manual labour; was formerly free, is subject to a duty of 24 per cent, ad relored, machinery for cotton spinning and weaving mills remains duty free, as do cotton yarn and the cotton manufactures remain dutiable as before at the rate of 34 per cent, ad relored. Taking material and ships are to pay 24 per cent,, and coal a specific duty of 8 annas per ton. It resisted in bars, plates, sheets, and other manufactured forms, formerly dutiable at 1 per cent only 24 per cent. The rates for silver and petroleum remain as before, but silver pates ilver thread are to pay 15 per cent. The sugar duty is raised from 5 to 10 per cent, and considual increases have also been made in the rates leviable on alcoholic liquors and tobacco. In adeas a sport duties have been placed on tea and inte.

Schedule	II(Import	Tariff).

No.	Names of Articles.	Per	Tariff Valuation.	Detr
	L-Food, Drink and Tobacco.			
	FISH.		Rs. a.	
1	Fish, Salted, wet or dry	Indian maund of 821 lbs. a voirdupois weight.	,	Such rate of rates of drift not exceeding twelve annuas as the Governor General in Councilmate.
•				by notification in the Garette of India, from time to time prescribe.
2	FISHMANS, including singuly and sozille, and sharkfins.		Ad ralorem	71 per cent.
2	FISH, excluding salted fish (see No. 1)		27	73 0 (2)
	FRUITS AND VEGETABLES.		•	:
4,	FRUITS AND VEGETABLES, all sorts, fresh, dried salted or preserved— Almonds without shell, in the shell, kagari { Persian European	ewt.	80 0 22 0 75 0 45 0 25 0 75 0 50 0	per cent

Schedule II-(Import Tariff)-continued.

	Names of Articles.	Per	Tariff Valuation.	Duty.
	I.—Food, Drink and Tobacco—contd.		,	
	THUITS AND VEGETABLES-contl.		It4. a.	Rs.a. p.
4	FRUITS AND VEGETABLES, all sorts, fresh, dried	.]		
	ealted or preserved—contd. Currents	ewt.	1 38 0	74 per cent,
-	Dates, dry, in bags wet, in dry baskets and bundles in in pots, boxes, tins and crates	",	7 12 5 8	7
-		"	9 0	71 ,, ,,
	Figs, Persian, dried	1 "	18 0 8 0	7
	Pistachio nuts Prunes, Bussora (flu-Bokhara)	1 "	.1d raiorem	71
	Raisins, black		41	74 71
-	kishmish, Persian Guif	1 111	ii o	71
	,, other sorts	****	Ad valorem	
	Walnuts, all descriptions All other sorts of truits and vegetables, fresh dried, saited or preserved.		19	71 ;; ;;
	ORAIN, PULSE AND FLOUR.			
5	GRAIN AND PULSE, all sorts, including broker grain and pulse, but excluding flour (see No. 6)		Ad valorem	21 per cent!
G	FLOUR		,,	71
	LIQUORS.			
7	ALF, Beer, and Porter	imperial gailon or 0 quart bottles	****	0 4 6
8	CIDER and other fermented liquors	"		0 4 6
Ø	Liqueuns, Cordials, Mixtures and other preparations containing spirit— (a) Entered in such a manner as to indicat	1		14 10 0
	that the strength is not to be tested. (b) If tested	Imperial		11 4 0
	•	gallon or 6 quart bottles of the strength of London proof.		and the duly to be in- creased or reduced in proport io n as the strength of the spirit
				exceeds or is less than London proof.
10	Pearomed spirits	Imperial gallon or 6 quart bottles		18 12 0
11	Spirit, which has been rendered effectually an permanently unit for human consumption.	d	Ad valorem	71 per cent.

Schedule II-(Import Tariff)-configration

50.	Name of Artistics	tor :	TATIT THE WATER	gas,
	L.—Food, Drink and Tobacco—cost! LIQUORS—cost!	Truy tal	ti- n p. ;	1. 3 P
. 12	All other corts of Stratt	Thurch purch purch purch betting of the classification of the clas		And the distance of the control of t
1	1		i	110.00
	Champagne and all other sporting where not containing more than 42 per cent, of prest spirit.	"	•	1 6 17
,	All other sorts of wines not containing from than 42 per cent, of proof spirit. Provided that all sparkling and still wines containing more than 42 per out of proof spirit shall be liable to duty at the rate applicable to "All other sorts of Spirit."		• • • •	112 2
	PROVISIONS AND OILMAN'S STORES.			
	11 Vinegar, in casks	·	Ad taloreia	#1 frs c
	Provisions, Olyman's Stones, and Geograps alisoris, excluding vinegatin casks (see No. 14)-			
	Becon		Ad caloreis	74 "
	Buttee Chester, Tuploca or Sago Cheese	ent.	1 8 12 8 Adenlorem	77 "
	A Comment of the Comm	. cwt. (uclt)	* 00 0 # 5 5 8	77
	Ghi		70 0	71 ;;
	Vinegar not in casks—		}	
	Persians Indian All other sorts of provisions, oliman's store and groceries.	5.	**************************************	77.7
		1	•	1

Schedur-
II—(Import Tarise)
Schedule II—(Import Tariff)—continued.
Tobacco I amation I
" to thut tan whole man
Bele linute, raw, whole, relite, or slited, from Gon and Dutch East India; "Strake" cwt. Faw, stom Coston The strake of the cost of the
The plit (sun-dred) (sun-dred) (sun-dred) (sun-dred)
" "Xhausted" " Adres 71 " "
In madd heads curt, curt, 71 m
All villes white
Total Street Cart Cart Cart Cart Cart Cart Cart Car
18 Sum
I then are of all a reading Mode
Sugar, cryston. Ad calorem
Sugar, crystallized, beet and soft route and sugar, crystallized, beet and soft route.
All other seed " " from Japan cut.
Sugar, crystallicol
Dutch and roft, from Java, 27
1 " ava 15 m
Molarses from Mauritium stan-
Surar, all other countries due of all tresorts, lactors and other countries due of all tresorts, lactors.
A sindy, sarcharine pro 2 8 10 "
TEA Id valorem 10 "
Breen
1b.
" 0 12 71 per cent.

Schedule II—(Import Tariff)—continued.

No.	Names of Articles.	Per	Tarist Valuation.	Duty.
	L.—Food, Drink and Tobacco—conld, OTHER FOOD AND DRINK,		Rs. a.*	Rs. a. p.
30	COITEE	curt.	50 0	71 per cent.
21	Hors	. ****	,	Prec.
<u>9-2</u>	SALT	Indian maund of \$2\(\frac{1}{2}\) ths. a voirdupois weight.		Pile rate at which excise duty is for the time being leviable on salt manulactured in
,				the place where the import takes place.
20 % 17	SALT imported into British India and i-sued, in accordance with rules made with the gree long sanction of the Governor-General in Council, for use in any process of manufacture; also salt imported into the port of Calcutta and i-sued with the sanction of the Government of Bengal to manufacturers of glazed ston-ware; also salt imported into any port in the provinces of Bengal and Bihar and Orissa and issued, in accordance with rules made with the previous sauction of the Governor-General in Council, for use in curing fish in those provinces.			Free,
24	. wise specified.		Ad ralorem	75 per cent;
	TOBACCO.			i
2;		. 10 ₄	••••	100
20		1	Ad valorem	50 per cent.
2	All other sorts of Tobacco, manufactured	.1 1b.	••••	180
. ,	II.—Raw Materials and produce and articles mainly unmanufactured.			
	COAL, Erc.			
2	S COAL, CORE AND PATENT PUEL	Ton.		0 8 0
	GUMS, RESINS AND LAC.			
	GUMS, RESINS AND LAC, all sorts— Copal Cutch and gambler (natural) Gambogo	3	Ad valoren 30 0 1 12	71 per cent.
	Gum Ammoniac	cwt.	20 0 20 0 · Ad valorem -40 0	71 " " 71 " " 71 " "

Schedule II .- (Import Tariff)-continued.

No.	Names of Articles,	Per	Toriff valuation.	Duty,
	II.—Row Materials and produce and articles mainly unmanufactured —confd.		Hs, n,	Rq. u. p.
50	Guns, Resins and Lac, all corts—could, tum Benjamin, cowrie. " Bysbol (coarse myrrh) " Ottomum of translatence. " Persian (laise)	ewt.	75 0 26 0 12 0	71 per cent.
	Myrth Rosin - All other sorts of gums, gum-resins, and arti- cles made of gum or gum-resin.	87 89 ****	50 0 15 0 Ad valorem	77 21, 11 77 11 11 11 21 21
	HIDES AND SKINS, RAW.	}	}	1
20	Hibes AND Skins, raw or salted			Free.
	METALLIC ORES, AND SCRAP IRON OR STEEL FOR RE-MANUFACTURE.			
91	TEON OF STEEL, old	cwt.	2 8	21 per cent.
no	METALLIC ORES, all sorts		Ad calorem	71 /
	ons.	- '''		
33	Petroleus, including also naptha and the liquids commonly known by the names of rock-oil, Rangoon-oil, Burma oil, kerosine, parafin oil, mineral oil, petroline, gasoline, benzol, benzol, enzoline, benzine, and any inflammable liquid whiteh is made from petroleum, coal, sellist, shale, peat or any other bituminous substance, or from any products of petroleum, but excluding the following classes or petroleum.	Imperial gallon.		,0 1 6
	Petroleum which has its flashing point at or above two hundred degrees of Fahrenheit's thermometer and is proved to the satisfaction of the Collector of Customs to be intended for use exclusively for the batching of jute or other fibre, or for ig brieating purposes.		Ad valorem 7	i per ceni.
	Petroleum which has its flashing point at or above one hundred and fifty degrees of Fahrenheit's thermometer and is proved to the satisfaction of the Collector of Customs to be intended for use exclusively as fuel or for some sanitary or hygienic purpose.	:	Ad ratorem 7	
31	All other sorts of animal, essential, mineral, and vegetable non-essential OLE—		·	
	Coccount oil		26 0 71 d valorem 71	79 87 ' 23 33

Schedule II.-(Import Tariff)-continued.

No.	Names of Articles.	Pér	Tarift Valuation.	Duty.
	II.—Raw materials and produce and arti- cles mainly unmanufactured—conld.	,	Rs. a.	•
}	SEEDS.		Mr. W.	
3 5	Oil-SEEDS, imported into British India by sea from the territories of any Native Prince or Chief in India.		• • •	Free.
១៤	SEEDS, all sorts, excluding oil-seeds specified in No. 35.	****	Ad culorens	73 per cent.
	TALLOW, STEARINE AND WAX.] }
7	TALLIOW AND STEARINE, including greater and animal fat, and Wax of all sorts, not otherwise specified.	****	Ad calorem	7å por cent.
	. TEXTILE MATERIALS.			
19	Corros, raw			Ггес.
\$9	Wool, raw		·	,
10	TEXTLE MATERIALS, the following:-		ĺ	"
	Silk waste and raw silk including cocoons			
	Rokham	Ib.	7 v Ad ralorem 5 8 6 0	71 per cent, 77 11 22 22 22 22 22 22 22 22 22 22 22 22
	Mathow	.,	3 12 3 0	71 " "
	Persian	"	1	//
	Siam	"	4 8 3 10	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	White Shanghai, Thoukoon or Dupplon.	••	3 8	71 , ,
	o " other kinds including re-		0 0	73 ,, ,,
	other kinds of Chins, in- cluding re-reckd.	17	7 10	71 ,, ,,
	Waste-and Kachra		Ad ratorem	71
	All other sorts, including cocoons Raw Flax, Hemp, Jute and all other unmanufactured textile materials not otherwise specified		. 173	7 1 17 77 77 77 77 77 77 77 77 77 77 77
	WOOD AND TIMBER.		l]
4	I FIREWOOD		Ad ralorem	23 per cent.
4	2 WOOD AND TIMBER, all sorts, not otherwise speci- fied, including all sorts of ornamental wood.		,,	7½ " "
	1	1	1	<u> </u>

Custom's Tariff.

Schedule II.—(Import Tariff)—continued.

No.	Names of Articles.	Per	Tariff Valuation.	Duty.
	III.—Articles wholly of mainly manufactured.			<u> </u>
	APPAREL,			
50	APPAREL, including drapery, boots and shoes, and military and other uniforms and accourtements, but excluding uniforms and accourtements exempted from duty (No. 51) and silver thread		Ad valorem	74 per cent.
51	(No. 90). UNIFORMS AND ACCOUREMENTS apportaining thereto, imported by a public servant for his personal use.		,	Free.
	ARMS, AMMUNITION AND MILITARY STORES.		1	
52	Subject to the exemptions specified in No. 55, ARMS, AMMUNITION AND MILITARY STORES, that is to say,—	·		
	(1) Firearms other than pistols, including	Lach.		Rr. s.
	gas and air guns and rifles. (2) Barrels for the same, whether single or double.	,,		30 0 =
	(3) Pistols (4) Barrels for the same, whether single of	::		15 0 3
	double. (5) Main springs and magazine springs for firstrus, including gas, guns and rifles	,,		o o rulore
	(6) Gun stocks and breech blocks (7) Revolver cylinders, for each cartridge			20 0 0 12 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1
,	they will carry. (8) Actions (including skeleton and waster) breech bolts and their heads, cocking pieces, and locks (for muzzle-loading	Z		per cent.
ì	(9) Machines for making loading or closing cartridges for rifled arms.	3,		10 0 0
	(10) Machines for capping cartridges for ritled arms.	۰,		28 5 6
	Proviso 1.—No duty in excess of 20 per cent. at rallorem shall be levied upon any of the article specified in items Nos. 1 to 10 of this entry when they are imported in reasonable quantity for his own private use, by any person lawfully entitled to possess the same.	8. 5		
	Proviso 2.—When any articles which have been otherwise imported and upon which duty has been levied or is leviable under items Nos. 1 to 10, are purchased retail from the importer by person lawfully entitled as aforesald, in reasonable quantity for his own private use, the importer may apply to the Collector of Custom for refund or remission (as the case may be) of	o a e		
	so much of the duty thereon as is in excess of 20 per cent. ad raloren; and if such Collector is satisfied as to the identity of the articles and that such importer is in other respects entitle to such refund or remission, he shall grant the same accordingly.	f s d d		



Schedule II.—(Import Tariff)—continued.

o.	Names of Articles.	•		Pcr	Tarist Valuation.	Duty.
	III.—Articles wholly or main manufactured—conid.	ly			Rg. a.	Rs. a. p.
	ARMS, AMMUNITION AND MILIT STORES—contd.	ARY			ner a.	
55 A	RUS, AUMUNITION AND MILITARY STORES	-contil			·	
	(f) Swords for presentation as army of teer prizes;	r volun	-		•	
	(g) Arms, ammunition and militar imported with the sanction of t ernment of India for the use portion of the military forces of State in India which may be me and organized for Imperial Servi	he Gov of an a Nativ intaine	, .			
	(h) Morris tubes and patent ammun ported by, officers conumndin and Indian regiments or volunt for the instruction of their men.	g Briti- cer corr	h l			
50 ¹	 ting guapowde ynamite, blast all other sort ing detonators and blasting fuse. 	ling rob	u- l	****	Ad rataren.	74 per cent.
	CARRIAGES AND CARTS	3.	- 1		1	
57	CARRIAGES AND CARTS including a motor-cycles and motor-wagons, ble cycles, jinrikshas, bath chairs, pera trucks, wheel-barrows, and all other conveyances and component parts it	er sorts	irs, iri- ors, of	****	Ad valorem	F
	CHEMICALS, DRUGS AND ME	DICIX	es.			
58	ANTI-PLAGUE SERUM					Free.
59	COPPERAS, Green	••		****	Ad valorem	23 per cent.
€0	Orrun and its alkaloids			Seer of 8		21 0 0
61	Quintre and other alkalolds of cinches	nα		tolas.		Tree.
Ç 65	CHIMICALS, DRUGS AND MEDICINES, a otherwise specified—	11 zorts,	not			
	Acid, sulphuric	••	•••	cwt.	Ad latores 5 0 10 8 19 0 Ad valore	74 ,, ,, 74 ,, ,,
	Sal ammoniae	••		cwt.	Ad valore 5 0 6 0 38 0	713 71 71 71 71 71 71 71 71 71 71 71 71 71
	Sulphur (brimstone), flour roll	•••	••	23	Ad valore	7½ ,, ,, 7½ ,, ,, 7½ ,, ,,

Schedule II.-(Import Tariff)-continued.

No.	Names of Articles.	Per	Tariff Valuation.	Duty,
62	III—Articles wholly or mainly manufactured—contd. CHEMICALS, DRUGS AND MEDICINES—contd. CHEMICALS, DRUGS AND MIDICINES, all sorts, not otherwise results.		Rs. a.	,
	otherwise specified—contd. All othersorts of chemical products and preparations not otherwise specified Aloes, black	****	Ad valorem	7½ per cent
	, Socotra	cwt.	135 "0	71 ;; ;; 72 ;; ;; 73 ;; ;;
	Atary, Persian	ib.	35 0 Ad valorem 0 9 Ad valorem 8 0	7½ ,, ,, ,, 7½ ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
	Camphor, refined, other than powder in powder	ib.	1 6 Ad valorem 20 0 11 0	7 :
	China root (chobehini), rough	cwt.	18 0 Ad valorem 90 0	71
•	Galangal, China Pellitory (akalkara) Poppermint, crystals Salep Senna leaves Storax, liquid (rose mellos or salaras) All other sorts of drugs, medicines, and narcotics.	cirt.	12 0 Ad valorem 190 "0 Ad valorem 80 0 Ad valorem	7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.
	CUTLERY, HARDWARE, IMPLEMENTS AND INSTRUMENTS.		İ	
63	The following Aobioultural DIPLEMENTS, when constructed so that they can be worked by manual or animal power, namely, winnowers, threshers, mowing and reaping machines, clevators, seed-crushers, chaff-cutters, root-cutters, horse and bullock gears, ploughs, cultivators scarifiers, harrows, clod-crushers, seed-drill, hay tedders, and rakes.		* • • • • • • • • • • • • • • • • • • •	Free.
64	CLOOKS AND WATCHES, and parts thereof	****	A3 valorem	71 per cent.
65	CUTLERY	****	"	71 " "
GG	The following DAIRVAPPLIANCES, when constructed, so that they can be worked by manual or animal power, namely, cream separators, milk sterilizing or pasteurizing plant, milk crating and cooling apparatus, churne, butter dryers, and butter workers.	••••	•••	Tree,
67	ELECTROPLATED WARE	••••	Ad valorem	71 per cent,
68	HARDWARE, IRONMONGERY AND TOOLS, all sorts not otherwise specified.	···········	"	71 ,, ,,

Schedule II .- (Import Tariff) - continued,

-	Namer of Articles.	Fer	Tariff Valuation.	Duly.
	III.—Articles wholly or mainly manufactured—conid.		D4. 5.	
	CUTLERY, HARDWARE, IMPLEMENTS AND INSTRUMENTS—confd.			
69	Instruments, apparates, and appliances, imported by a passenger as part of his personal baggage and in actual use by him in the exertice of his profession or calling.	****	•	Free.
70	TELEGRAPHIC INSTRUMENTS AND APPARATES, and parts thereof, imported by or under the orders of a railway company.	****	Ad relaters	23 per eent.
77	WATER-LIFTS, SUGAR-3011.9, OIL-TRESSUE, and parts thereof, when constructed so thus they can be worked by manual or animal power.		••••	Proc.
72	All other sorts of implements, instruments, Apparatus and appliances, and parts thereof, not otherwise specified.	4***	Ad valarem	The per each
	DYES AND COLOURS.		,	
73	DTEING AND TANNING SUBSTANCES, all sorts, and TAINTS AND COLOURS and painters' materists, all sorts—			
	Allzariue dye, dry, 40 per cent.	m, ·	20 0	74 per cent.
	,, ,, 50 ,,	"	20 0 22 0 24 0 26 0	F :: ::
		**	28 0	2 "
	,, ,, ,, 80 ,,	81	1	1
	11 1, 100 ,	**	30 0	7
	n n 16	**	5 8	1 第 第 第
	Aniline , moist	31	3 8	77.
	3	16	7.0	1
	. 5313	****	Ad ralorem	1 1 1 1
	Avar bark Burgand (gulpista).	cwt.	Ad valorem	1 1 1 1
	Cochineal	Ib.	1 10	精 :: ::
	Gallauts (myrabolams)	****	Ad relorem	2ª
	Persian	cyt.	100 0	24.22.
	Orchilla weed	••••	11	25 11 11
	Sappan wood and root	••••	"	1 7 1 1
	Turmeric All other sorts of dyeing and tanning materials	• • • • •	"	詩 :: ::
	Lead, red, dry	cwt.	34" 0	
	ochre, other than European, all colours.	,,,	35 D 2 O	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		-2"		i _,
	Paints composition	,,,,,,	Ail valorem	1 7 1 1
			1.	

Schräule II .- (Import Tariff) -- confinued.

4	Normal Artition	Per	Tariff Valention,	Daty.
73	His Articles wholly or mainly granufactured moif. Diffs and Colours moif. Diffs and Colours moif. Diffs and taken represent, all series of rate to accept and painters in attains, all series of the colours and painters. You white, der a colour of the colours of painters and extent and extent of the colours o	imperial gallou- loss of Ob bundles.	B+. n. 3	7: per cent.
71	PAULIFIE OF WOOD. FURTHERN, Capitagrams, and all manufactures of wood not other monoperior.	,. <i>.</i>	Ad colores	7f per cont
; ;	GLASSWARE AND EARTHENWARE. GLASSWARE AND EARTHENWARE, Glassware, all sorts, Chinese and Japaneseare, Incorporate ware, carthenware, China and portelate.		Ad velosers	27 Let coup
76	HIDER, SHINS AND LEATHER. HIDER AND FEINS not otherwise specified, INVESTMENT AND LEATHER MANUFACTURES, all sorts, not otherwise specified.		Ad valorem	71 per cent.
77	MACHINERY. MACHINERY, namely, prime-movers and component parts thereof, including bollers and component parts thereof, also including locomotive and portable engines, stram-rollers, fire-engines and other machines in which the prime-move is not separate from the operative parts. Machinery (and component parts thereof), meaning machines or sets of machines to be worked by electric, steam, water, fire or other power not being manual or animal labour or which, before being brought into use, require to be fixed with reference to other moving parts; and including beiting of all materials for driving machinery. Provided that the term does not include tools and implements to be worked by manual or animal labour and provided also that only such articles shall be admitted as component parts of machinery as are indispensable for the working of the machinery and arr, owing to their shape or to other special quality, not adapted for any other purpose. Note.—This entry includes machinery and component than metal, but excludes the articles exempted under Nos. 78, 79 and 80.		Ad valorem	21 per cent.

Customs Tariff.

Schedule II.-(Import Tarlff)-continued.

ĩo.	Names of Articles.	Per	Tariff Valuation,	Duty.
	III.—Articles wholly or mainly manufactured—contd. UACHINERT—contd.		Rs. a,	
78	MACHINERY AND COMPONENT parts thereof as defined in No. 77 imported by the owner of a cotton spinning or weaving mill and proved to the satisfaction of the Collector of Customs to be intended for use in a cotton spinning or weaving mill.		•	Free.
70	The following articles used in the manu- ratures of cotton, namely, bobbins (warping) forks for looms, healds, heald cords, heald knit- ting needles, laces, lags and needles for dobbies, pickers (buffalo and others), picking bands, picking levers, picking sticks (over and under), reed pilers, reeds, shuttles (for power looms), springs for looms, strappings, and west forks.	••••		Free.
80	DRAWING-IN-FRAMES imported by the owner of a cotton weaving mill and proved to the satisfaction of the Collector of Customs to be intended for use in the weaving of cotton.	••••	*	Frec.
81	MACHINERY and component parts thereof, meaning machines or parts of machines to be worked by manual or animal labour.		Ad valorem	7i per cent.
	METALS, IRON AND STELL			
52				
	Angle, T Lowingor or Swedish and similar		Ad valorem	24 per cent,
٠,	qualities. other than Lowmoor or Swedish	ton	250 0	23 ,, ,,
•	and similar qualities. , other than Lowmoor or Swedish and similar qualities, if galvanized, tinned, or lead coated.	••••	Ad valorem	2ŧ ,, ,,
	- All other sorts		33	21 ,, ,,
	BAR, ROD AND CHANNEL, INCLUDING CHANNEL FOR CARCIAGES—			
٠.	Bar, Lowmoor and similar qualities	ton	320 ³ , 0	21 " "
	" Swedish and similar qualities nall-rod,	"	326 0	21 ,, ,,
	round-rod, and square under 4 inch in diameter.		4.2 2	0.7
	,, Swedish and charcoal, if galvanized, tinned, or lead coated.		Ad valorem	21 ,, ,,
٠.	, other kinds null-rod round-rod and	ton	250 0 260 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
,	square under half inch in diameter. if galvanized, tinned, or		Ad valorem	21 ,, ,,
	lend coated. Channel, including channel for carriages			}
	All other sorts	:::: -	"	2 " "
	Pic Ince Bowls		, ,,	25 , "
		1	1	1

Schedule II.-(Import Tariff)-ocntinued.

io.	Names of Articles.	Per	Tariff Valuation	Duty.
•	III.—Articles wholly or mainly manufactured—conld.			<u> </u>
	METALS, IRON AND STEEL-cont.			1.
83	IRON OR STEEL—		Rs. a.	
	ANCHORS AND CABLES BRAMS, JOISTS, pillars, girders, screw-piles, bridge work and other such descriptions of fron or steel imported exclusively for building purposes; including also ridging, guttering and continuous roofing. Bours and nuts, including hook bolts and nuts		Ad valorem	21 per ceut
	for roofing. Hoors and steips—		ļ	
	Hoops, Lowmoor or Swedish and similar qualities.		39	21 ,, ,,
	other than Lowmoor or Swedish, if Mivanised, thined, or lend coated.	••••	,,	21, ,,
	other kinds Strips; Lowmoor or Swedish and similar	ton	280 0 Ad valorem	型 :: :;
	qualities. , if galvanised, tinned, lead coated, alu- infulum coated, chequered or pla- nished.	****	21	21 ,, ,,
-	" other kinds	ton	· 250 o	21
	NAILS, RIVELS AND WASHERS, ALL SORTS— Iron nails, rose, wire and flat-headed, other kinds, including galvanised, tinned, or lead coated. Steel ,, all sorts	cwt.	20 0 .1d valorem	21
	Rivets and Washers, from or steel PIPES AND TUBES, and fittings therefor, such as bonds, boots, elbows, tees, sockets, flanges and the life		Ad valorem	11 11 11 11 11 11 11 11 11 11 11 11 11
	RAILS, CHAMS, sicepers, bearing and fish plates, spikes (commonly known as dog spikes), nvitches, and crossings, other than those described in No. 91, also lever boxes, clips, and tie-bars.		99	21 ,, ,,
-	Sueers and Plates, all sorts excluding discs and circles which are dutiable under No. 85.	1		
	Sheets and plates, Lowmoor and similar qualities.	••••	Ad valorem !	21 Per cent.
	" Swedish and charcoal if salvanized, tinned, or lead coated.	::::	;;	77 ,, ,,
	Plates, other kinds, above finch thick Sheets, ii, up to fine fine corrugated), and plates. other kinds, if galvanised, tinned, lead coated, aluminium coated, clequered or	ton	310 0	71 H 77
	planished. Sheets, corrugated, galvanised or black Wine, including fencing wire and wire rope, but excluding wire netting (which is dutlable under No. 85).	ton	303 0 Ad valoren: 2	29 27 2 23 33

Customs Tariff.

Schedule II .- (Import Tariff) -- continued.

	Names of Articles.	Per	Tarlff Valuation.	Paty.
T	III.—Articles wholly or mainly manufactured—conts.			
	METALS, IRON AND STEEL-could.	1		
S	TEEL-			
	Anole-		Ry, a.	
	Angle, T ,, If galvanised, tinned, or lead coated ,, all other sorts	ton	Ad ralosem	gi per crnt.
	BAR, ROD, AND CHANKEL, including channel for carriages—			
	Bar (other than cost steel)	ton	250 0 Ad valorem	21 ,, ,,
	,, nali-rod, round-rod, and square, other than Swedish or similar qualities, under	ton	260 0	2) ., ,,
1	inch in diameter. ,, galvanized, tinned, lead coated, planished ed or polished.	****	Ad ealorem	21 ,. ,,
-	" all other sorts	• • • •	**	25
1	Channel including channel for carriages Cast including spring, blistered and tub steel. INGOTS, BLOOMS, BILLETS AND SLAES	• • • •	** **	2 2 2
:5	All sorts of inon AND STEEL and manufactures thereof, not otherwise specified—			
	Iron or steel cans or drums, when imported con- taining petroleum, which is separately assessed to duty under No. 33, namely ;—			,
	lron or steel cans, tinned, other than petrol tins of two gallons capacity.	can	0 03	71
	Iron or steel cans or drams, not tinned, of two gallons capacity.	*	0 2	71 , ,,
-	Iron or steel drams of four gallons capacity—			
	(a) with faucet caps	quan	0 8	71 ;; ;;
	Iron or steel, all other sorts, including discs or circles and wire-netting.	••••	Ad valorem	71
	METALS, OTHER THAN IRON AND STEEL.			}
86	CURRENT SILVEE, NICKEE, BRONZE, AND COPPER COLS of the Government of India.			Free.
87	GOLD BULLION AND COIN			Free.
88	LEAD, sheets, for tea-chests	••••	Ad valorem	24 per cent. Rs. a. p.
80	Silver, Bullion or coin, not otherwise specified (See Nos. 86 and 135).	оппсе	•	0 4 0

Schedule II .- (Import Tarlii) -- continued.

No.	Names of Articles,	Per	Tariff Valuation.	Daty.
	III.—Articles wholly or mainly manufactured—contd.			
	METALS, OTHER THAN IRON AND STEEL-contd.		Rs. a.	
00	SILVER PLATE, SILVER THREAD and wire and Silver Manufactures, all sorts.	****	Ad valorem	10 , per cenț
91	ALL FORTS OF METALS OTHER THAN IRON AND STEEL, and manufactures thereof, not other- wise specified—	••	-	,
	Brass, orsidue and leaves, European	****	Ad valorem	74 per cent.
	,, ,, China	****	**	7} ", "
	, patent or yellow metal sheets and sheathing, weighing, 1 lb. or above per square foot, and braziers and plates.	cwt.	85 0	73 ,, ,,
	" patent or yellow metal (old)	"	40 0	7 ,, ,,
	", sheets, flat or in rolls, and shrathing, weighing less than 1 lb. per square foot.	****	Ad valorem	71 ,, ,,
	,, wire		99	71 ,, ,,
i	" all other sorts	• • • •	**	72 ,, ,,
	Copper, bolt and bar, rolled		**	71 ,,
- 1	proviers, sheets, plates and sheathing	ewt.	84 0	71
	" nails and composition nails	****	Ad valorem	71
	,, old	ewt.	50 0	71 ,, ,,
	,, piga, tiles, ingota, cakes, bricks and	,,	80 n	71 ,, ,,
	slabs. China, white, copperware	lb.	2 4	75
	" foll or dankpana, white, 10 or 11 in. ×	hundred	5 B	73
,	4 to 6 in. , follor dankpana, coloured, 10 to 11 in.	leaves	60	71
	× 4 to 5 in. ,, wire, including phosphor-bronze		Ad valorem	73 ,,
	" all other sorts, unmanufactured and manufactured, except current coin of the Government of India which			3 ,, ,,
ĺ	ls free.	.	Al ratorem. 7	lnes end
	German silver		,,	per cent.
	Lametta Lead, all sorts (except sheets for tea chests)		3 7 3	
	Quicksliver Shot bird	lb. cwt.	34 0 7	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Tin, block ,, oll, and other sorts		14 0 Ad ralorem 7	
!	1	- 1		

Schedule II.—(Import Tariff)—continued.

	Names and Articles.	Per	Tariff Valuation.	Duty.
ĺ	III.—Articles wholly or mainly manufactured—could.		•	
	METALS, OTHER THAN IRON AND STEEL—contd.			
91	ALL SORTS OF METALS OTHER THAN IRON AND STEEL, and manufactures thereof, not otherwise specified—contd.		Rs. 3.	
	Zine or speiter, nails	****	Ad valorem.	73 per cent.
	,, ,, files or slabs, coft	ewt.	100 0	73 ,, ,,
	,, ,, ,, hard	**	75 0	73 ,, ,,
	" tiles." sill other sorts including boller		Ad ralorem	7} ., ,,
	All other sorts of metals, and manufactures thereof.	****	,,	71 ., ,,
	PAPER, PASTEBOARD AND STATIONERY.			
02	TRADE CATALOGUES AND ADVERTISING CIRCULARS IMPORTED BY PACKET, DOOK OR PARCEL POST.	****	••••	Free.
03	PAPER AND ARTICLES MADE OF PAPER AND PAPIER MACHE, PASTERDARD, MILLEOARD, AND CARD-EDARDARD and STATIONERY including ruled or printed forms and account and manuscript books, labels, advertising circulars, slicet or card almanaes and calendars, Christmas. Easter and other cards, including cards in bookiet form; including also wastepaper and old newspapers for packing; but excluding the calloques and advertising circulars imported by packet, book, or parcel post.		Ad valorem	7½ per cent.
	RAILWAY PLANT AND BOLLING STOCK.		1	
,	ing stock, namely, cylinders, girders, and other	***	Ad valorem	21 per cent.
	carriages, wagons, traversers, trollies, trucks and component parts thereof; also the following articles when imported by or under the orders of a milway company, namely, cranes, water cranes, water tanks and standards, wire and other materials for fencing.		e e	
•	Provided that for the purpose of this entry "railway" means a line of railway subject to the provisions of the Indian Railways Act, 1890, and includes a railway constructed in a Native State under the sucrainty of His Majesty and also such trailways as the Governor-General in			
_	Council may, by notification in the Gazette of India, specifically include therein.			

Schedale II .- (Import Tariff)-continued.

No.	Natives of Artistes.	Per	Tariff Valuation.	Duty.
	HL—Articles wholly or mainly manufactured—confd. EMBWAY PLANT AND ROLLING STOCK			
54	Buthar herinten for premanent-nay, etc.	!	•	1
	Priviled allo that only with articles shall be admitted as component parts of railing materials are in liep mable for the working of railing same are, awing to their shape or to other special quality, not adapted for any other privile.			
	YARNS AND TEXTILE PADRICS.		!	1
5.2	COTTON TWEST AND TARR, and COTTON SERVING OR DARNING THEIR AD.			Free.
20	Second-namp of the Gunny made of Jule			Free.
07	YARNS AND TEXTILE PAURICS, that is to say			
	Cotion plane goods, the adoth rithm rewing or darning the ad, and all other manufactured cotton goods not otherwise specified.		Ad edlorens	7½ per (
İ	Flantwist and yarn and manufactures of flan Habardashery and Millinery		# b # b	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Home manufactures Host ry, excluding cotton hostery (see No. 95).		**	77
	July twist and yarn and jute manufactures, excluding second-hand or used gruny bags (see No. 96).	,	**	14 #
	Slik yarn, noils, and warps, slik thread, slik place-goods and other manufactures of slik.		**	71 ,,
	Woollen yarn, knitting wool and other manu- factures of wool including felt.		11	7 <u>1</u> ,,
	All other sorts of yarns and textile fabrics, not otherwise specified.		•	7 <u>†</u> .,
	MISCELIANEOUS.	}		
93	Ant, the following works of :- (1) statuary and pictures intended to be put up for the public		••••	Free.
	benefit in a public place, and (2) immortals of a public character intended to be put up in a public place, including the materials used, or to be used in their construction, whether worked or not.		•	
99	Arr, works of, excluding the especified in No. 08.		Ad valorem	74 per cen
100	Books, printed, including covers for printed books, maps, charts, and plans, proofs, music and manuscripts.			Tree.
101	BRUSHES AND BROOMS		Ad ratorem	7½ per ce
102	EVILDING AND ENGINEERING MATERIALS, including asphalt, bricks, cement, chalk and lime, clay, pipes of earlienware, tiles and all other rorts of building and engineering materials not otherwize specified.		,,	72

Customs Tariff.

Schedule II.—(Import Tariff)—continued.

No.	Names of Articles.	Per	Jariff Valuation.	Duty.
	III.—Articles wholly or mainly manufactured—conid.		•	
	MISCELLANEOUS-contd.	}	ne. a.	
103	CANDLES		Ad colorem	7) per cent
104	CORDAGE AND HOPE AND TWINE OF VEGETABLE		,;	74
105	FIREWORKS		11	71 m
106	FURNITURE, TACKLE AND APPAREL, not otherwise described, for steam, railway, rowing and other vessels.	••••	13	71 33 33
107	Ivory, manufactured	• • • •	>1	71 ,, ,,
108	JEWELLERY AND JEWELS, including gold plate and other manufactures of gold, but excluding silver plate and other manufactures of silver (*ee No. 90).	***	Ad ralorem	71 per cent.
100	MATCHES		21	71
370	Mats and Matter] ,	, ,,	73
111	OHCAKES		,,	7} ,, ,,
112	OLICIOTH AND FLOOR CLOTH		,,	73
118	PACKING—ENGINE AND BOILER—all sorts, excluding packing forming a component part of any article included in No. 77 and No. 94.	••••		71
114	Penruhent, excluding perfumed spirits (see No. 10)—			
,	Gowla husked and unhusked Kapurkachri (sedcary) Patch leaves (patchoull) Rose-flowers, dried Rose-water	ewt.	150 0 50 0 15 0 18 0 2 8	77-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
115	PITCH, TAR AND DANDIER	941011.	Ad valorem	71
110	Polishes and compositions		,,	75
117	PRINTING AND LITHOGRAPHING MATERIAL, namely, presses, type, ink, brass rules, composing sticks, chases, imposing tables, and lithographic stones, sterco-blocks, roller moulds, roller frames and stocks, roller composition, standing screw and lot presses, perforating machines, gold blocking presses, stercotyping apparatus, metal furniture, paper folding machines, and paging and numbering machines, but excluding paper (see No. 93).			21, ,, ,,
111	PRINTS, ENGRAVINGS AND PICTURES, including photographs and picture-cards.		·,,	73 "
11	RACES for the withering of tea leaf		. "	21 ,, ,,

Dúty.

Schedule II.—(Import Tariff)—concluded.

Names of Articles.

		}	Valuation.	
	III.—Articles wholly or mainly manufactured—contd.			
	MISCELLANEOUS—contd.	i	Rs. n.	
20	RUBBER tyres for motors and motor cycles, and rubber tubes for tyres, and other manufactures of rubbers, not otherwise specified.		Ad talorem	71 per cer
21	Super AND other vessers for inland and harbour navigation, including ateamers, launches, boats and barges, imported entire or in sections.		25	21 ,, ,,
22	SMOKERS' REQUISITES, excluding tobacco (see Nos. 25 to 27).		,,	71 ,,
23	SOAP	••••	,,	7} ,, ,
24	STARCH AND PARINA		, ,,	71
25	STONE AND MARBLE, and articles made of stone and marble.		21	7½ ,, ,
26	TEA-CHESTS of Metal or wood whether imported entire or in sections, provided that the Collector of Customs is satisfied that they are imported for the purpose of the packing of tea for trans- port in bulk.		51	.) t 2 ,, ,
27	Toller requisites, not otherwise specified		"	$T_{x-t_{\ell}-t_{\ell}}^{t}$
28	Toys, playing cards and requisites for games and		,,,	73 , , ,
29	sports. Unnertas, including parasols and sunshades, and fittings therefor.	••••	"	7: " "
30	The following AETICLES, when imported by the owner of a cotton weaving mill and proved to the satisfaction of the Collector of Customs to be INTENDED FOR TSE IN THE WEAVING OF COTTON or the baling of woven cotton goods:—			
	Aniline blue, Bisuiphate of soda, China clay, Clidoride of magnesium, Cidoride of zine, Dressalin, Eprom salits, Farina, Farinina, Tlannel taping, Glauber salte, Glutina, Giycerine substitutes, Heald varnish, Hoopiron, Hoop steel, Rivets for bales, Sewing needles, Sizing pate, Sizing wax, Soda ash, Starch, Velvet pulp.		3	Free.
:1	ALL OTHER ARTICLES wholly or mainly manufactured, not otherwise specified.	••••	Ad valorem	?! per cent.
- [IVMiscellaneous and unclassified.	1		
2	Animals, living, all sorts			Tree.
3	Corst		id talorers	per cent.
4	Fodder, bran and pollards		,,	· ,, ,,
5	Specialize Illustrative of natural science, in-			Free.
ic	cluding also antique coins and medals. All other articles not otherwise specified, including articles imported by post.	}	id calorem 7	I per cent.

Schedule III.-(Export Tariff).

Xo.	Fames of Articles. Per	Bate of duty.
1	Jate other than Bimlipatam Jute.	Rs. a. p.
	(1) Cuttings	1 4 0
	(2) All other descriptions	4 S 0
ŝ	JUTE MANUFACTURES when not in actual use as coverings, receptables or bladings for other goods.	1
	(1) Sacking (cloth, logs, twist, ram, rope and fon of 2,240 lbs twine).	.) 20 o n
	(2) Herstons and all other descriptions of jute, ,, manufactures not otherwise specified.	. 32 O U
	BICE.	i
5	Rice, busked or unbusked, including rice four, ludien usuand of \$2.7 lb. but excluding rice from and rice dust, which avoirdupous weight, are free.	000
	TEA.	
1	TEV 100 lbg	180

THE WAR LEAGUE.

and in restoring the Pax Britannica.

The War Lague was formed in Kamehi H. Kothari, E. L. Price, Karachi, and M. de P. in 1915 with the following objects:— Webb, C.I.L. Hea. Chief Secretary, Karachi.

(i) To organise and concentrate the efforts. Six Honorary Secretaries deal with the and resources of those who, though unable to affairs of the League throughout India, Burma proceed to the lattic front, are nevertheless and Ceylon. The War League Journal is the anxious to asked Government in every possible official organ of the League. Several local way in repelling the enemies of civilisation, Divisions (each with its own President, Comopportunities of following closely the causes that have led up to the War, as to the true facts of the world-struation, the main incidents of the world-struation, the least of helping and incidents in Entitle and Indian Saving and Helping Bank Ltd.) which (a) about the quickest possible downfull and externization of the enemy invaders.

The Central Committee at present consists of the Hon. Sir Ibrahim Bahimtoola, C.I.E., Bontay; Dr. S. K. Mullick, M.D. Calcutta; the Hon. Mr. Sir Ibrahim Bahimtoola, C.I.E., Bontay; Dr. S. K. Mullick, M.D. Calcutta; the Hon. Mr. Shan Malonned Shafi, C.I.E., Iahore; the Hon. Mr. Shan Malonned Shafi, C.I.E., Iahore; the Hon. Sha Shafi, C.I.E., Iahore; the Hon. Sha Shafi, C.I.E., Iahore; the Hon. Sha Shafi (Shad); the Hon. Shafi (Shad); the Hon. Mr. Hartholmin (Shad); the Hon. Shafi (Shad); the Hon. Mr. Hartholmin (Shad); the Hon nd in restoring the Pax Entannica.

(2) To enlighten those who have not had out northern India. The League distributes

India and the War.

HOSTILE FIRMS.

It was early realled in India that the adoption, | moffeeth. A few planters, a few shopkeners for all purposes, of the classical definition of an in the larger towns, a hotel proprietor or two tryy of Sate, the Bostile Foreigners (Trading) placed under Government control in practically Order was found. The salient feature of this every case. The men of military age have been order was the definition of a "hostile for Liner" interned and those outside the age limits and a sample of the most part the women and children for the most part out reference to the question of residence. It further have an absolutely free hand to Govminent in doubtful cases by defining a he-tile tirm, as a firm of which a hostile foreigner had; refuse such a House or to impose any condiof India. In the event of a license being refused the lesines users had to be deposited with toverment for disposal at their absolute discretion. It will be seen that the immension of the definition of a hostile firm brought with the second of the definition of a hostile firm brought within the pursion of the order numerous British and neutral firms who happened to have German shareholders, or perhaps a German subject as branch manager. To meet some of these cases a general exemption was issued in favour of companies who had no hostile foreigners as officers and merely had capital of amount less than one-third of the whole in enemy hands. An exemption was also made on political grounds in favour of Asiatic subjects of Turkey. In other cases where the Interests involved were mainly British, licraes to carry on trule were given, subject, of course, to the provisions of the Royal Proclamations.

There remain the cases on which public attention has naturally been focused, where the interests involved are mainly or entirely hostile. It was considered desirable that these businesses should be wound up as far as possible and though the Order gave power to Government to take possession and themselves to conduct the liquidations, it was considered more satisfactory to issue to these firms licenses which retricted their operations to winding up, and subjected them to a strict control. The and subjected them to a strict control. The Proceeds of such liquidations are being held by foverment, and though their total figure has not as yet been made public, it must run into several crores of rupecy.

The great majority of firms of this class are of German origin, and their principal strong-limits in India have been in Bombay, Calcutta and Hangoon. Elsewhere in India the chief feature of their enterprise has been the successful way in which their bear features. ful way in which they have fostered indigenous industries through the agoner of Christian Missionaries. The best known example is the case of the Easel Mission whose products, notably their roofing tiles, are familiar throughout the wife example in the case of the Easel Mission whose products, notably their roofing tiles, are familiar throughout the wife example.

November 1914, with the approval of the Secretarial businesses have been either wound up or the women and children for the most part repatriated.

The more striking features of Tentonic commercial enterprise at the three great ports are h on a member or officer on August 3rd, 1914, different in each case. In Rangoon at the out-All such firms or foreigners were forbidden to trade except under a license. The right to players were almost nithout exception, German. fire total value of these three properties has been estimated at three properties has been estimated at three-quarters of a million sterling. The largest of them is believed to have been subskied by the German Government with a view to their perpetually maintaining a large stock of rice in Germany against omergencies like the present.

> One of these rice-mills has been leased to a British firm and all payments are made by the latter to Government account. The other two
> frus have been made to wind up their affairs,
> their resulting balance also being deposited in
> the Government Treasury. One or two less
> important Teutonic firms engaged in rice
> milling and a number of small miscellaneous
> concerns and branches of hostile firms in other parts of India have also been treated in the eamo wav.

> The salient feature of the German enterprise in Calcutta has been the hide export traffic. In this business a ring of some half dozen German firms had, of late years, established a practical monopoly. As they formed the main channel for the export of an important in-digenous product, and as British firms have not proved anxious to undertake this exceedingly unsavoury trade, these firms were for a time allowed to continue their business under British or neutral management, with a strict supervision by the officer appointed by Government to control hostile firms in Bengal. Other German concerns in Calcutta have been wound up. They are mostly small miscellaneous businesses with two exceptions. One is a large import and export item which has figured prominently in the manganese trade in the Contral Provinces and elsewhere. The other is a branch of a German Bank, the only German Banking concern in India,

In Bombay the hostile firms which have aroused most interest have been those engaged in the synthetic colour trade which in the last three decades has almost annihilated the indi-genous indice industry. (See article on Indice). Prior to the war dyes valued at about one million out the west of India. Apart from these cases, where religious and commercial endeavours almost the whole of this quantity came from have gone hand in hand, the German has not obtained any very noteworthy foothold in the

.914, the stoppage of this supply has been one of the most serious and most widely felt commercial blows that India has suffered as a result of the war. The textile mills have suf-fered heavily, but much more serious has been the case of the handloom weavers in small villages all over India. Had Government been far-sighted enough to have assumed control of these stocks immediately war broke out, it is very doubtful if they could have done much to assist the petty weavers and dyers, whose complete lack of organisation renders, help on a large scale well nigh impossible. As a matter of fact not only were Government un-prepared but the commercial community themselves did not recognise the gravity of the situation until the mischief was done. By the month of November when Government assumed control of these firms three had practically disposed of their whole stock, much of which had gone into the hands of speculators with the result that prices had increased enormously. In a fourth the stock was the property of a neutral, and the fifth alone had a considerable neutral, and the min appearance is common balance. Part of this was distributed among the textile mills and a further quantity sold commit to the smaller consumers. This latter policy did not prove very successful and on the arrival in Bombay of a captured German steamship with a considerable quantity of dyes which had been condemned as Prize of War and were to be sold accordingly, it was decided to auction balance (about one-sixth of the original stock), after reserving a further supply for dis-tribution to the textile industry. Prices at this auction, though considerably exaggerated in the Press of the day, were none the less very high; and the profits made over the sale of this firm's stock as a whole must have been considerable. These funds are, of course, all held by Government at present, and one of the difficult problems which Government will have to solve when the terms of peace are under consideration will be the disposal of these profits. In addition to these dye-firms, there were in Bombay several considerable import merchants and a number of smaller concerns of a hostile nature to whom also the closure has been applied.

The policy adopted in the early months of the war by Government in the matter of hostile firms came in for a good deal of criticism, largely, be it said, from misinformed quarters. The view of the average patrictic Briton is "wind them up competely," but many critics who have voiced this cry have overlooked the fact that to wind up a concern necessitates not only the payment of all its liabilities and thesale of all its stock, but also the collection of all its debts. The man In the street would no doubt like to see Germany after the war with neither debts nor liabilities in India. But his brother in the next street whose business has suffered from the effects of the war naturally resents being forced to pay his debts to a German firm, even though the firm's moneys are held by Government. In this matter Government has adopted a middle

aree stocks in India at the beginning of August | allowing them a reasonable period, with a proportion of their outstandings left under what is in effect a morntorium till the end of the war.

> Enemy Trading Ordinance. 1916.—In June, 1916, the Government of India promulgated an ordinance dealing with the liquidation of hostile firms and the property of hostile persons, which brought the legislation in this country into close accord with the present state of the English law. The British Trading with the Enemy Amendment Act of 1916 enables action to be taken in the case of firms whose business, by reasm of enomy nationality or association, is carried on wholly or mainly for the benefit of enomy subjects. It also gives power to the Board of Trade to abrogate contracts or transfers, a power which it is believed has for obvious reasons been very sparingly exercised. It also enables a company containing enemy elements to purge itself thereof with the assistance of the custodian, who may permit the British share-holders to buy out enemy shareholders, deposi-ting the price so paid with the custodian. The ordinance follows the English Act closely with such modifications as local circumstances require. It enables Government to wind up hostile businesses much on the lines of the Indian Compa-nies and Insolvency Acts, the distribution of assets so resilized being subject to special rules. The liquidator has power to give a good title to purchasers of the goodwill of hostile businesses and to the immovable property held by them. The new procedure represents a considerable advance from that previously adopted in that the initiative for liquidation comes from the liquidator and is not left nominally with the tirm itself. It also enables hostile businesses dealt with to be completely extinguished, thereby preventing any chance of their recovering from a state of suspended animation and resuming business after the conclusion of peace. An additional provision contained in the ordinance relates to the property of hostile persons or associations not engaged in trade. The Hostile Foreigners Trading Order contained no provisions for dealing with non-trading persons or associa-

In considering the total volume of trade handled by hostile foreigners one is struck by the fact that it represented before the war only a comparatively small proportion of the total trade between India and Germany and Austria. The dye business was done almost entirely through Germans but aport from this particular line the bulk of imports from and exports to Germany and Austria passed through British or neutral firms in India. The ultrapatriot cries out for a complete boycott of goods from these countries after the war. This policy will hardly appeal to thinking men. It is almost on a par with the brilliant suggestion put forward in a reputable Anglo-Indian newspaper that it should be made an offence to be in possession of German-made goods. Any such goods found were to be sold immediately on the conviction of the owner. No suggestions were made as to the treatment of the purchaser. this matter Government has bacopted a minute of the course. Hostile firms in liquidation have course. Hostile firms in liquidation have been allowed to collect their debts, but coercion has only been allowed where there productive power of Germany and Austria. The Toutonic Empires, once the cancerous number of firms have been closed down after growth, which has vitlated their whole being,

cininently useful for the economic service of the world at large. But this body must be confined within limits, and the moral to which a consideration of this question of hostile trade in

has been excised, will still constitute a body with Germany as before without a single German being allowed to reside in India. In overy branch of trade with Germany and Austria except the dye-business, the bulk of the produce is handled by British and neutral concerns. India points, is that the Tcutonio body can be When the war is at an end, trade must be remade a thoroughly useful zervant, even though sumed with the enemy Powers, but there is its activities are confined to its own territories. no reason why any German or Austrian ghould In other words India can do just as big a trade ever again reside in this country for his profit.

GOVERNMENT CONTROL OF WHEAT EXPORTS.

The circumstances which led the Government! of India to undertake the control and marketing of the Indian wheat exports were peculiar. There was a very large wheat crop in India in the season 1914-15, and the surplus available for export was estimated at two million tons. In ordinary circumstances, therefore, India might have looked forward to a brisk season, with the internal prices at reasonable rates. But the economic disturbances set up by the war and the operations of speculators produced a complete bouleversement. The supply of ready wheat in India was cornered and the prices forced up to famine level. At the same time there were large operations in the new crop. The great wheat-cating provinces in India are the Punjab and the United Provinces. In parts of the Punjab wheat was forced up to six seers a rupe, which is a rate which inflicts in reducing Indian prices to a safe level. It also severe distress on the consuming class, and the succeeded in placing the undoubted Indian position was such that action was imperative, surplus of wheat at the also said the population flore had been wides pread agrarian trouble in of the United Kingdom during the inter-harvest position was such that action was imperative. There had been widespread agrarian trouble in the Western Punjab, which whilst inliamed by rumours of the war nevertheless was largely caused by the high prices, and experienced offi-cers were convinced that if the progressive rise in values was not checked there would be extensive rioting and looting of grain shops in the Punjab and the North-West generally. Gov-ernment were pressed to take two courses—to prohibit the export of wheat until prices came down to the level of nine seem per rupee and on the other hand to let the market take its course, on the supposition that the high prices realised by the growers would compensate the consumers for the famine prices which they had to pay for their food. The unofficial view of the question will be found reflected in an interesting debate in the Imperial Legislative Council (3.c. Work of the Legislative Council). As a preliminary step the export of wheat from December to March was limited to 100,000 tons (92,000 tons only were shipped) and in March all exports on private account were prohibited for a year. These were temporary measures: Government took a quite different and even more herole course—they took the whole of the export trade under their own control.

tion of the export of wheat on private account with the exception of wheat purchased in fulfilment of actual sale contracts prior to the date of sums provided by the agent firms for the purment of actual sale contracts prior to the date of sums provided by the agent arms for the pur-Government's announcement of their policy, chase of wheat on Government account before The firms ordinarily engaged in the export of the publication of the Government's decision, wheat from India were employed as Government the time had the option of taking repayment agents and were remnerated by a commission either in India or (at the rate of 1s. 4d, the of 2d, per quarter for buying in India and 3d rupce) in Ingland. In the latter case payment the per quarter for selling in Engined plus a fee of was made at the date on which a demand bill be per cent, for guaranteeing the home buyer, reached England.

The supervision of the scheme in India was in the hands of the Wheat Commissioner, subject to the orders of the Government of India; the indian Wheat Committee, of which the Chairman was Lord Lucas, was appointed to supervise operations in England. Freight was chartered in England under the direction of the Committee. Any profit, after payment of all charges arising out of the differences between the sale of the wheat at its natural price in England and its purchase at the officially regulated price in India was to form part of the revenues of the Govern-ment of India, while the British Treasury guaranteed the Government of India against any

Results of the Scheme.-The Indian Government's scheme was immediately successful months when the United Kingdom was most in need of supplies from India. Wheat prices in England fell from 69 shillings per quarter c.t.f. in April to 49s. 9d. in the middle of June, this being the lowest price received for the Indian Government's shipments. Prices row again in July and August but not to their previous level, the average price being 55 to 56 shillings. To this fall in Home prices the Indian Government s shipments undoubtedly contributed.

Whilst accomplishing these ends the scheme secured a good profit to the cultivator, which is estimated at twenty-five per cent, above normal. The Government price never worked out at less than three rupees eight annas per maund at Lyalipur, the great wheat market in the Punjab, and in normal times the cultifrom vator is satisfied if he sells his crop at three rupees.

The one point in which the Government scheme is open to serious criticism is the method adopted for financing the wheat firms in India. About the end of May the Secretary of State decided that the Government of India should place funds from their own resources at the dia-The Official Policy.—The scheme adopt posal of the Agent hims, thus avoiding transactor involved the total prohibitions between England and India in connexion ed by flovernment involved the total prohibitions between England and India in connexion with purchases to be made and paid for in India.

Special arrangements were made in respect of

ves argued that it was no real economy; also that it was responsible for a break in exchange and a large demand for sterling bills on London, or Reverse Councils as they are now called Further, it temporarily destroyed the means of livelihood of certain brokers who depend on

which Rs. 2,05,65,129 represents rayments in strelling made by the Secretary of State. To this must be added the cost of the Wheat Commissioner's establishment, etc., Rs. 77,155-14-10 from the 1st April 1915 down to the 30th April 1916. The estimated profit is about £130,000. This figure is a good deal less than was anticipated at the commencement of the scheme—ambitious people saw a profit of a million or two in it. The surplus continued to the surplus are the left of the surplus were at first on a very small scale margin of profit between Indian and Home prices; but in the period from August to October this must be added the cost of the Wheat Commissioner's establishment, etc., Rs. 77,155-14-10 ber helped by the favoumble prospects of the monsoon and by steadily ristog prices for wheat in Eugland, nuch larger purchases were made. By the end of October it was estimated that 1916. The estimated profit is about £130,000. The surplus for export, ambitious people saw a profit of a million or two in it. The surplus continued to the surplus were at first on a very small scale margin of profit between Indian and Home margin of profit of profit of profit of profit of profit of profit of profit of profit of profit of profit of profit of profit of profit o The payments made to the agent firms in India amounted to Rs; 6,98,63,283-11-5, of which Rs. 2,05,65,129 represents payments in sterling made by the Secretary of State. To this must be added the cost of the Wheat Comtwo in it. The surplus available for export proved to be much smaller than was thought; the official estimate of the yield of the 1915 crop mas 10,200,000 tons which should have left an exportable surplus of at least 2,000,000 tons. The Home Committee also held on too long, and when the unexpected break in prices occurred they saw their prospective profits disappear. Then Government carried their own insurance: two of the wheat ships were sunk, one by a following table shows the exports of wheat submarine, whilst snother was wrecked when approaching the Mersey.

Private export resumed.—By the end of April 1916, the situation had materially altered. The new season's crop in India was beginning to come forward and prices were very much lower than in the preceding year; the demand from the United Kingdom also was less urgent. The Government of India therefore decided to abanthis business. But inasmuch as the business allowed private export to be resumed from the Treasury had guaranteed the Government of allowed private export to be resumed from the should take any profit, the decision of the total quantity exported by means of a system of allotments to the exporting firms. Purchases by the firms were at first on a very small scale by the firms were at first on a very small scale don the scheme of Government purchase and

prospects of the American and Canadian crops, which had been severely damaged by rust. Prospects of the harvest in England also were poor and the price of wheat rose to 80 shillings per quarter. A Royal Wheat Commission was appointed in England to regulate supplies and prices of wheat in the United Kingdom and it was soon announced that the Commission would resume Government purchases in India.

		4				
		1	Pre-War Average,	1015-16.	1916-17.	
			Tons.	Tons.	Tons.	
••			1,005,800	526,200	679,200	Je ns
••			164,900	78,600	46,600	ia.
• •	••	• •	137,300 .	48,100	7,900	PB's
	••	••	P.	Tons. 1,005,800 164,000	Tons. Tons. 1,005,800 526,200 164,900 78,000	Tons. Tons. Tons. 1,005,800 526,200 679,200 164,900 78,000 46,600

EXPORT OF TANNED HIDES.

The production of rough-tanned cow hides known as Last India Kip- has for a long time been an important trade in Madras and Bomboy. These kips are experted to the United kingdom and after further treatment by curriers are used principally for the upper leather of boots. The demand for upper leather in England has been phenomenal since the com-pencement of the war on account of the very Lirge contracts for boots for the British Army and our Allies undertaken by British manufactturers under the direction of the Royal Army Cioling Department. In order to regulate the prices payable for the tanned hides and also the increase the supply, arrangements were made in the control of August 1010 by which the Indian Government undertook the purchase in India of all Last India Kips suitable for Army work. These are

being bought in Madras and Bombay by the Indian Government and shipped to the War Office. Prices for the various grades and tan-nages have been fixed. In Madras purchases are made by Government from the 14 principal exporting firms proviously engaged in this trade, allotments being made to the firms in proportion to their previous business. Freight is provided by Government. In Bombay an Agent has been appointed to purchase from the tanners direct and ship to the War Office. The Government of India have placed the control of the scheme in India, under their direction, in the hands of the Wheat Commissioner who is assisted by Mr. J. Wright Henderson, of Mcsars. Wood Malvenan & Company of Glasgow, represcuting the War Office. .

Birth to protect lot a ablacker are them, frieted to the normalin the case of the B. S. A., in the following fallers .

Aggregately from Decide 14,61,19,00 19 1912-11. Vist 1915(16) 15, 17,34,960

. interfer of r 1714 a quited for Army leather were re- are micated, and 0 to 21 lbs, dry salted,

"the normal" being very literally interpreted to allow for normal expendion. At the end of 1916, however, the continued rise in raw hide pries, the difficulty of obtaining empiles for the Madras and Bombay tanners and the inen asing demand from the U. K. led the Govexament of India to announce that after 31st De mber 1016 (allotments having been given the extent of raw hides is another only et quarterly) no farther allotments would be given till in a state of flux. Genously a flare in this, for export to countries offer than the United trades for the was intelliged been taken by the Kingdom or allied countries of raw hides of U.S. A and hitly, I can be April 1915 exports weights required for Army work, cir., 6 to 181bs.

THE WOOL TRADE.

The digited for export of Tils can Wood Rooms and purches a bring placed in the leads weathly to the Valled Sides of America, caused of the Wheat Commissioner for India. a grat rise in teles of this class of wool during the lost matter of into and mad mid it disscult for the Weeden Mills in the north of India which ware engaged on Important Confirmment contracts, to obtain sufferent supplies. The r dimpered in January, 1916, and arrangements ven male for the direct purchase by thourn-thent, for supply to the Northern Indian Woolneth, for supply to the agrinem initian wool-len Mills, of all Tibetan nool intering holds through the State of Sikkin. The Defence of India (Wood Pendius) Bul's published in the fearth of India on the Inth Telmany, 1916 schilblief the punhase of such wool except and the reference of the property of and r lie are from those mment, the control of . tors.

of the What Commissions for India, In 1916-17 the Exports of raw wood were an million life, or 17 million life, less than in the preceding year and pearly of million lbs. less than the pre-war average.

Mindras Wool (Black and Grey).—The exused in the manufacture of Army Blankets by the Bangdom and Homisay Wooden Mids, has been prohibited; further, in order to prevent the wool being miked from Madms to areas further north, where it could be mixed with Dekkani and similar wools and so evade the export restriction, transport by mill from stations within the Madras Presidency has been regulated by a system officences controlled by District Collec-

MUNITIONS BOARDS.

In the of the election of ocean freight, the domaids of the expeditionary forces to Expri. Each Africa and Me-opotania and the concentration of the British industrial development and for the purpos of formulating schemes for a more systematic the year to develop Indian concess of supply, the year to develop Indian concess of supply, the year to develop Indian concess of supply, the year to develop Indian concess of supply, the year to develop Indian concess of supply, the year to develop Indian concess that the year to develop Indian concess the year to develop Indian concess the year to develop Indian concess of supply the manufacturing industries. With the object of recent attempts to assist industrial development and for the purpos of formulating schemes for a more systematic policy, my predecessor appointed a Commission, which has commenced its survey and expects to complete its investigations during this next cold meather. Beautifully special conditions arising directly from the parameters of the properties of the pro r land, formally Director of the Geological Survey of India and rub quently President of the India Irriestries Commission (q.v.). The work of this Board is necessarily largely con-identifying the control of the largely conledential but in a speech in the imperial Legis-lative Council on September 5th His Execlinery the Viercey gave a detailed account of some of the activities. In the course of this he said: Although certain scientific and technical services had been organised before the war and indiviments for the purpose of facilitating the development of our natural resources as well as Indurtrial enterprises the Government of India have for some time been conscious of the fact that time efforts were more spormle than sys-tematic. They were, nevertheless, not without value as experiments necessary to establish the data required to formulate a more comprehen-sive policy. The marked success which has followed the organisation of research and demonstration work in relentific agriculture and monstration work in recentine agreements and class. To the intimate object of developing the assistance which has been given to the established and of inaugating new industries mineral industries by the Geological Survey in India the primary object of the Munitions are striking examples that encourage a bolder i Board was immediately essential while the

ninen has commenced its survey and expects to complete its investigations during this next cold neather. Meanwhile, special conditions arising directly from the war—the chortage of ocean transport facilities, the cutting off of supplies of many manufactured articles and the necessity of economising man-power in the United Kingdom-have induced my Government to anticipate the findings of the Industrial Commission, organising at once so far as is possible under present circumstances, the resources of the country with a view of making India more self-contained and less dependent on the other world for supplies of manufactured goods.

The Munitions Board was founded five months ago with this main object in view and its organisation has grown to rapidly along the lines originally planned that its activities now exceed in bulk those of most Government departments. Of the two main objects kept in view when this organisation was planned, the supply of essential stores for the armies in the field has necessarily been given preced-ence. To the ultimate object of developing iccessory object was regarded as more distantly monitant. But experience has demonstrated hie inventive fertility of necessity and success seyond expectation has already followed ittempts to manufacture in the country articles hat formerly could be obtained only from ibroad. In carrying out its primary object he Munitions Board has gathered together the illherto isolated fragments of other purchasing logariments and has welded thom into a single organised machine for the purpose of regulating contracts and analgamating demands, thereby mying on a larger scale and preventing the ompetitive buying between various Government agencies, which previously caused those litaturbances of local markets that were neither good for Government nor for the commercial community. The carly activities of the Board were necessarily confined to a regrouping of the centrally controlled official machinery in cooperation with the local Government. However, outputs have now been instituted in every province and the framework having thus been restablished, the development and consolidation of the whole body should proceed on sound lines.

In revising the indents made by Government officials on the Stores Department of the India Office and in controlling the applications made by private importers for permission to import articles on the Englishlist of probibited exports, it has been found practicable to curtailnumerous demands that were formerly made in ignorance of Indian resources and thus to bring the wouldbe importer into touch with the local manufacturer. The centralisation of information in this way has revealed the fact that numerous isolated demands, each made on a scale too small to tempt local enterprise, often form in the negregate markets of a size sufficient to justify the organisation of new industries. To detect the existence of these and to assist private enterprise a special branch of the Board is devoted to the collection and distribution of industrial intelligence. In extension of work of this nature arrangements are being made for the distribution to colleges of research problems having a direct industrial value, the distribution of the prolilems being controlled so as to prevent unnecessary overlapping and duplication of work. It would take too long to recite all the activities of the Board, but I will give you one example to show the way in which our present war necessity gards our present neces is being turned to account for industrial develop- promise for the future.

ment of a kind likely to become permanent. The simultaneous exports of raw hides and raw tanning, materials has often suggested to economists the desimbility of developing the tanning industry in India. Hitherto, enterprises in this direction have been attended with but limited success: In order, however, to meet the War Office demand leather tanners in India have now been given orders on a scale that has encouraged them to reform their methods and by having to work regularly to a rigid standard of high quality, striking improvement in their work has already taken place. In order more fully to turn to account the various natural-tan stuffs of India, the Munitions Board, with the generous consent of a group of Central Indian States, has taken over the tannery at Maihar to test new tan stuffs, now combinations of known materials, now processes and the manufacture of concentrated tan extracts. The experimental work at this tannery is controlled by a committee composed of members of the tanning industries and expert leather chemists. Those results, which on an experimental scale, appear to be successful, are being tested on a commercial scale at the Alliahabad Tannery recently purchased for the purpose. The results as they become established will be published for the benefit of tanners in other parts of India, any of whom will be welcome to inspect the processes in actual operation at Alliahabad.

With the Forest Department the Munitions Board has organised the collection of those materials that are shown by the experimental work to be promising tan stuffs and has arranged with the railway companies for their distribution at uniform and low rates of freight. A certain number of students are already being entertained as apprentices and it is hoped later on to develop this side of the work by the formation at Alianbad of an institute in which the scientific aspects of tanning will be taught in conjunction with practical work on a commercial sale in the tannery itself. It is in directions like this that the work of the Munitions Board will grow until at the end of the war its machinery should be ready to be utilised with practical effect in carrying out the recommendations of the Industrial Commission. Such, in brief summary, is the work of the Munitions Board, vital as regards our present necessiles and pregnant with promise for the future.

RELIEF FUNDS.

On the initiative of His Excellency the Viceroy a large sum of money has been raised in India for the relief of district caused by the war. A Central Committee was foreed over which the Viceroy presided and which included the Governor of Bengal, the Governor of Madras, the Governor of Bengal, the Governor of Madras, the Governor of Mensel of the Commander-in-Chief, the members of H. E. the Viceroy Executive Council, the heads of other Local Governments and Administrations and the following Rulling Chiefs:—The ir Highness-the Maharaja of Gwalior, the Regum of Bhopai, the Maharaja of Gwalior, the Kizam of Hyderabad, the Maharaja of Indope, the Maharaja of Administration of Jaipur, the Maharaja of Ka-junit, the Maharaja of Kotah, the Maharaja of Mysore, the Maharaja of Patiala, the Maharaja of Rewa, and the Maharana of Udalpur

Under its control an executive committee was formed and local branches were constituted. The treasurer of the Fund was at first the late Sir A. Kerr who was succeeded by Mr. Henry (General Manager of the Alliance Bank of Simia) and the Joint Secretaries are Mr. F. W. Johnston and Major John Mackenzie.

Among the provincial offshoots of this fund is the Women's Branch of the Bombay Presidency Fund, which was started by Lady Willingdon, with the object of collecting comforts for the troops and of making up quantities of suitable carments.

Pensions-The balance of the money at the disposal of the Central Fund will be devoted eventually to the third, and ultimately the most important, object of the Fund, namely, the grant of a sistance to the widows and orphans of those who are killed or die in service, to who a must logically be added the officers and soldiers incapacitated for further service. To smount which might be expended upon this object is almost unlimited, and the Committee in a recent communique to the Press state they have consequently endeavoured from the first to accumulate as large a sum as possible for expenditure at the end of the war, while affording such intermediate assistance as may be necessary. Some idea of the calls which may be anticipated upon the Fund at the close of the war may be cathered from the fact that even if the war had ended, by March 1916, the casualth a continuing at the same rate as hither to, It was stimated that of British officers of the Indian Army and of the Indian Army Reserve there will, by that time, have been 640 killed and 800 wounded ; sof Indian officers 700 killed and 760 wounded, and of fadian non-commisloved officers and men 9,000 killed and 25,000 wounded. It must, of course, be remerable to that not more than 25 percent of the word did in each class are lively to be so severely move dest as to be invalided out of the service. In the majority of case the wounds will be relatively ! elight, and the men will remain on the are Het. Even allowing for this feetmany of whom will need assistance from the Fund. With the war lasting longer, or should the ratio of casualites become still higher, the number of claimants for assistance from the Fund will be much greater than at present anticipated. In addition to the classes mentioned above, there are also the widows and dependents of men serving on the Departmental Unattached Lists, of the Civilian European and Anglo-Indianstaff belonging to the Military Accounts, Postal and Telegraph Departments, and of Sub-Assistant Surgeons, all of whom may need help.

All the above-mentioned classes will, of course, be eligible for pensions from the State; and the wound and injury pensions, as well as the family pensions, admirsible to all ranks of the indian Army and their families have recently been materially enhanced. Neverthless it is impossible for any pensionary scheme, however liberally framed, to meet in full the varying degrees of need which will arise; and it is with the object of supplementing the efforts of Government in this direction that the Curtail Committee have under their consideration various schemes for the graut of assistance to all these classes at the close of the war. A rough estimate of the probable cost of these measures, based now the optimistic hypothesis that the war might come to an end in the spring of 1916 and that the number of causalties will must fairly constituted that even the roll lenst Rs. 85 lakhs would be required, if adequate relief is to be granted.

St. John Ambulance Association.

H. E. the Viceroy, President of the Indian Council of the Association, announced on Jere 24, 1916, a change in the constitution of the Red Cross Department of this Association. Hesald: "The Indian Council of the St. John Ambulance Association has decided to sell rie Itself to the Joint War Committee in England of St. John's and the Red Cross under the fiffe The Indian Branch of the Joint War Cero. mittee of the Order of St. John of Jemisty ru and of the British Red Cross Society." sure that you will approve of this step which, while it I aven the civil side of the St John Ambulance Association unforeled, is eater lated to promote efficiency as regards Red Cores work. and to ensure prompt sugriles of comforts to the sickend wounded, will be it eliminates an popullities of entistinger diti fan de sa earnest of this appears at I may say the Jeffy War Committee in England have extend the and of the few to to my er die for the fartherence of the work of the rew Branch.

that not more than 25 persons of the word of dineach clays an illerly to be so severify nous defined by a living the service. In the majority of case the monds will be relatively elight, and the men will remain on the service of the first state of the test state of the service ad the Commander-in-Chief are the President, hospitals in Mesopotamia increased in num-lady President and Vice-President, respec-ber, but Convalescent Homes for officers have Indy President and Vice-President, respec-ively, of the new organisation. The Joint Hoporary Secretaries are the Rey, James Black and Major H. Ross, LM.S.

The War Fund has received generous support from the European and Indian public generally. Besides substantial donations from Princes and Nobles and other persons of wealth, the steady flow of subscriptions from officials of all grades has been a very gratifying feature of the Red Cross movement, while the help received from and through the leading and other ladies throughout the land must for ever stand out as a remarkable testimony to our women, Indian and European. In addition to contributions in kind the War Fund has received Rs. 14.29,132-0-11 (over £95,000 sterling), of which it still had at the end of June a cash balance in hand of Rs. 4,09.835-2-0. His Highness Maharaja Scindia of Gwallor, who is a Donat of the Order of St. John of Jerusalem in England, in addition to requesting that one-third of the total collection for the War in his State should be given to the St. John Ambulance War Fund, has himself given as many as five hundred original indian and British Ten-Bed Units to the Indian Council, representladies throughout the land must for ever stand Ten-Bed Units to the Indian Council, representing a cash value of Rs. 3,00,000, or 216,600 storling, as well as a grant in money of Rs. 75,000. His Highness the Maharaja Holkar 75,000. His Highness the Maharaja Holkar has made a handsome donation of Rs. 1,20,000 (£5,000 sterilars), and the Sheikh of Koweit one of Rs. 50,000. The Bettiah State has also recently made a noble contribution to the War Fund of Rs. 1,00,000. Other very generous donations are:—The Raja Bahadur of Mymensingh, Rs. 60,000. Sir Rameshwar Singh, Maharaja Bahadur of Darbhanga, Rs. 57,500; Her Highness the Begum of Bhopal, Rs. 19,000. Her Excell mcy Lady Carmichael's Rengal Women's Fund(towardsarcela) nurchaces. donations Bengal Women's Fund(towards special purchases for certain hospitals) Rs. 10,000 and Raja Jyoti Frasad Singh Dev of Panchet Rs. 10,000.

The supply of Motor Ambulance and Cars for the sick and wounded as well as for officers and men approaching convalescence continues to be one of the principal items of expenditure. The demand upon the Army for Ambulances and Cars of various designs for above service has with the advance of time and expansion of Military operations, become increasingly pressing, and it is a source of much gratification to the Indian Council that they have been enabled by the great generosity of certain individuals and of the public generally to come to the aid of our brave soldiers in this matter in a very substantial way. of the present pattern of Ambulance as approved by the Military authorities is approximately Rs. 10,000. In addition to the ordinary Ambulance fitted for lying-down cases, supplies have included Motor Bases of a special design for the rapid transport of less helpless cases between Ship, Train, and Hospitals and Motor Cits of a lighter build for use locally to take the way out for a considerable lating a faith the men out for an occasional airing-a fruitful aid to speedy convuluecnee.

Mesopotamin.—The special necds Mesopotamia are the principal concern of the Association. An advanced Depot was opened at Bara in March, 1916, and another at Baghdad in March, 1917. Not only have the

been opened at Amara and Basra, each to accommodate about 50 To the fitting up of these the Indian Council have contributed liberally the and will continue to do so as required.

Pay of the Indian Soldiers.

On January 1, 1917, important concessions to the Indian soldier were announced. In addition to receiving free rations (equivalent, in the case of a sepoy, to about Rs. 3-8 per month). Indian officers and non-commissioned officers are to benefit by largely increased pay. The ad-vantages thus secured are shown below, where the former rates per month and the new rates are contrasted:

	Former pay.	In- creased pay.
Subadar-Major and Risaldar Major Subadar, Risaldar and Res- saldar Jamadar Havildar and Dafadar Naik and Lance Dafadar	Rs. 150 100 50 18 16	Rs. 180 120 60 20 17

The increase in ordinary pensions is also very substantial. It has to be noted that formerly a sepoy or sowar could not retire on pension on a sepoy or sowar could not retire on pension on the completion of 15 years' service unless he were invalided, when he received Rs. 3 per month, whereas in future he may retire in the ordinary way after 15 years on Rs. 5 per month. Under the old system, again, the sowar or sepoy received a pension of Rs. 4 per month on the completion of 18 years' service, while the new rate will be Rs. 6. The increases in the case of other ranks are shown below:

_	Ser- vice. Years.	ror- mer rates. Rs.	New rates. Rs.
Lance-Daiadar and Naik Daiadar and Havildar	18 18 21	5 7	7 9 11
Jamadar	[20 21	16 20	24 30
Risaldar-Major, Subadar- Major. Risaldar, Ressaldar and Subadar.	E 21 23 23 23 23 23 23 23 23 23 23 23 23 23	30 35 40	40 45 55

The officers in the last entegory formerly had to serve 32 years to reach the maximum pension which was then Rs. 50 per month.

In addition to the above, there has been a pronounced enhancement in the special rensions granted to those who are not elizible for "ordinary" pensions, and who may be disclarged on the recommendation of a medical board owing to physical or mental weakness due to causes beyond their own control.

INDIAN FRONTIER ACTIVITIES.

In the 1917 edition of the Indian Year Book, a summary was given of the despatch by the CommanDerlucthick, Sir Beauchamp Bust, of the military operations carried out on the Indian Inculier up to the 19th March 1916. In a later despatch carrying the narrative to 1918 March 1917, the Communiscidentiality, Sir Charles Monzo, particularled the following operations.

Aden.—Our forces have been in occupation of the Shatki Othman-Imad line covering Aden, and facing the Turkish forces in Lakej and routh-east of that place. Throughout the year our troops have been in constant confact with the energy cumping in numerous outpost and patrely klimiches. The Turks made only one attempt to needed the offensive. On the 16th March, 1916, they attacked limal in force. The energy was beaten off without difficulty and by the movable column from Shaiki Othman. An attack was made on the Turkish perts at Jabir and Malast on the 7th December, 1916, in which the enemy casualties were estimated at 200. The action is reported to have had a demorabiling effect on the Turkish Arab auxiliaries, and to have produced the Intended result, rice preventing the withdrawal towards the Venneu of Turkish troops from Label. In maintaining the active defence of Aden during this period, the assistance and co-operation of the Royal Navy which has been readily afforded at all times, has been invaluable.

South Persia.—Oning to disturbances in Southern Persia and the consequent necessity for raising a Persian force under British officers to enable the Persian Government to restore and maintain order, a mission under Britadher-General Sir Percy Skyes, K.C.I.E. C.M.G., was despatched from India. With a military escort of all arms amounting to about 500 men, Sir P. Sykes marched from Bandar Abbas, ria Kerman and Yead, to Isfahan, where he joined hands with the Russians. Subsequently, the mission moved south to Shirar, where it now is. The Persian force is in process of formation. No opposition was met with on the march. In September, 1916, a mixed force was despatched from Isfahan to bring in a large convoy which was held up by raiders on the Lynch Road, some 50 miles from Isfahan. On the return journey the convoy was attacked near Kalchi-Shahit. The raiders were dispersed with considerable loss, and the convoy reached Isfahan in safety. After the arrival of the mission in Shiraz, a rising broke out in Kazerun and neighbourhood on the 17th December. A detachment of all arms was sent out from Shiraz, but, meeting with strong resistance at the Pir-i-Zan Pass, it withdrew to Shiraz. A small force operating in the district of Slijan, drove a force of Baharius and rebels from the town of Saidabad on the 28th September, 1916.

South-east Persin.—In conjunction with the Russians a small force was mentalined in Eastern Persia to ensure the tranquility of this region and frustrate the activity of German agents. Raids on the lines of communication of the force were made by certain tribes of Persian Baluchistan notably the Damanis of Sarhad. In order to prevent these and to control the Damanis, Brigadier-General R. E. Dyer,

Commanding in Eastern Persia, moved a part of his force to Khwash in May 1916. In July the hetile attitude of the Damanis necessitated punitive measure. The Damanis are divided into two main rections, the Yarmahonedzais and the Gamshadrais. Brigadier-General Dyer determined to move to Gusht in order to intervens between these two rections and to deal with each in detail. Operations in the vicinity of Gusht from the 12th July to the 23th July resulted in the capture of the bulk of the Yarmahomedral flocks and herds, the infliction of considerable loss and the separation of the two Damani sections. During the period several small actions were fought under trying conditions of climite and terrain, the chief engagement being one at Kalag near Gusht on engagement being one at Kalag near Gusni on the 21st July. During Augus, General Dyer traversed without opposition a large part of the Gamshadzal country, returning to Kinwasi on the 21th August. As a result of the above operations, agreements were arrived at with the chiefs of the Damanis, by which they promised to pay certain fines and to refrain from the chartilly. The fines through large now. future ho-tility. The fines imposed have now been pald in full, and the settlement has allowed of a portion of the Sistan force being withdrawn to Quetta. The troops maintaining a corden in Sistan were engaged with hostile bodies on in Sistan were engaged with hostile bodies on three occasions. At Lirudik on the 15th April, 1910, a force of 70 men of the Punjabis with a part of levies, indicted considerable loss on a ladikar estimated at 700 men. At Kalmas, on the 26th September, a party of 23 men of the Light Cavairy and 36 levies, defeated a party of gua-runners, capturing a large number of titles appared to the supermitting and carries. of ritles, ammunition and camels. Near Chorab, on the 24th March, 1917, a party consisting of 16 men of the Light Cavalry and one British officer and 25 men of the Punjabls attacked gun-runner's caravan. The whole of the transport of 20 camels as well as 417 rifles and some 23,600 rounds of ammunition were captured.

Mekran Mission.—In view of the disturbed state of the Mekran border due in a great measure to the intrigue of German agents, a political mission under Major Keyes of the Political Department, traversed this region with a regular escort of one platoon Gurkha Riffles, one company Baluch Light Infantry, and one section indian Field Ambulance. This mission left Gwadur in April 1916, traveresed Persian Baluchistan as far north as Khwash and returned to Chahabar, arriving on the 2nd February, 1917.

Operations in Jhalawan.—During the first half of 1916 considerable unrest existed amongst certain Jhalawan tribes of the Knlat State which had organised roving bands of maranders to terrorise the country. It was decided to send an escort with Lieut-Colonel A. B., Dow O.S.I., O.L.E., the Political Agent, Knutt, to restore order in that region. The escort con alsted of five British officers, and 250 men of the Plomeers, one section mountain Battery one Indian officer and 20 men of the 3rd Gwallo Lancers (Imperial Service Troops), and on section Field Ambulance concentrated at Mactung Road on the 6th June and marched vi Kalat into Jhalawan. In a series of wei

and a portion of the 2nd Division, and an attack on Earwelal by the Malisuda in March, 1917, the activity of troops on the frontier has been confined to dealing with trans-bonier raids. There, however, especially on the Derajat border, have been almost lines and and have entail at considerable activity on the troops guarding the frontier. During the last half of 1916, the attitude of some of the Molimand tribes because distinctly hostile, and a number of ratio were made across the border into the Perhaner area. To provent these raids and as a punishment, a blockade was instituted along the Mohmand border, and a chain of block houses, connected

1997 and and executed operations during John, by a view these, was constructed and minimal order and August in conjunction with the tribal long the 14th Neutralest a Medicand Industriation, the robot bonds were rounded up, come justicated at 0,000 everentiated in the Hale 166 men being killed and a number appropriate Kor, threatening and killed and a number appropriate Kor, threatening and killed and

Other was completely restored by the 11th The 1st and 2-4 Interior District of the August and the Keld Column returned to Matting Road reaching that place on the month of Majordonial Fir P. Carrievell, R.C.II., August

Korthewest Frontler—Except on the Mobel Movember. The attack was carried for and the first late of the fellowest for the control of the followest for the first late of the fellowest for the fellowest for the first late of the fellowest for the fellowest fellowest for the fellowest mand border, where the attitude of the tribes, into the loothills occupied by the every in the necessitated the mobilisation of the Perhawary attinity of Hans Res, and ensuable collected, and a portion of the 2nd Division, and an attack, at 100 killed and a veryly mounted were influenced. At I p. m., our force withfrew anappared. The lander had been completely force to and on the test historials, popularization should that it had completely despicered. the titles are not comprisely heappeared to the former. The Detailst Morratte Column, under the command of Education defenders of the Column o the till Harch, the energy withdrawing to the vicinity of harmand. The energy engagements at Barnand were formt and the tritermen directed.

PASSPORT REGULATIONS.

The following regulations concerning passports nore issued in 1915 :--

- Applications for Indian Passports must he made in the prescribed form, and submitted either direct or through the local authority—(a) in the case of a resident in British India, to the Local Government or Local Administration, concerned; (b) in the case of a resident in a Native State, to the Agent to the Governor-General or Political Resident concerned.
- The charge for an Indian Passport is Re. 1. 3. Indian Passports are granted to—(a) renewal is Re 1. Natural-born Brt.sh ubjects: (b) wives and widows of such p rsons; (c) Persons naturalized in the United Kingdom, in the British Colon es or in India; and (d) Subjects of Native States in India. A married woman is deemed to be a subject of the State of which her husband is for the time being a subject.
- Passports are granted upon the production of a declaration by the applicant in the prescribed form of application verified by a declaration made by a Political Officer, Manufante, Justice of the Peace, Police Officer not below the rank of Superintendent or Notary Public, testdent in : India
 - If the applicant for a Passport be a Naturalized British subject, the certificate of naturaliration must be forwarded with the form of application to the Officer empowered to grant the Passport. It will be returned with the Passport to the applicant through the person who may have verified the declaration. Naturalized Britan subjectis will be described as such, in

irPassports, which will be issued subject to necessary qualifications.

- G. Small duplicate unmounted photographs of the applicant (and wile, if to be included) must be forwarded with the application for a Passport, one of which must be certified on the mack by the per on verifying the declaration made in the application form.
- 7. Indian Passports are not available beyond two years from the date of issue. They may be renewed, in India only, for four further periods of two years each after which fresh Passports must be obtained. The fee for each
- Passports cannot be issued or renewed on behalf of persons already abroad; such persons should be told to apply for Passports to the London Foreign Office or nearest British Mission or Consulate. Passports must not be sent out of India by Post.
- 9. In the case of an applicant for a Passport being unable to write Luglish a transcription in English should be placed below the applicant's vernacular signature in the farm of application. In the case of an illiterate person, a thumb impression should be substituted for a signature on the form of application, which should be certified by the person verilying the declaration.

Imvellers are hereby informed that rises and endorsements granted on passports by the Government of Bombay will, in future, be charged for as under :-

Fee for a visa on a foreign passport, Rs. 2.

Lee for an endorsement on a British Poss. port, Re. 1.

THE VICTORIA CROSS.

be a wounded, and the other gun put out of in that direction, but Lance-Naik Lala insisted artico ty a shill, Serry Khudadad, though him on going out to his Adjutant, and offered to

first to push round each successive traverse, in the face of revers the from bombs and rifles at the elect rates.

Jamidar Hir Datt, 55th Coke's Rifles .- For most conspicuous binacry and speak ability at Times on 20th April 1915, when he led his platoon with great reliantry during the attack, and attenuate collected various parties of the Regionent (when no Editich Officers were laft) and kept them under his command until the retireteent was ordered, Jamadar Mir Dast rubsequently on this day displayed remarkable rourns; in helping to carry eight British and Indian Officers into gafety, whilst exposed to very beavy fire.

Rifeman Kulbir Thapa, 2-2: J Gurkha Rifles-For most conspicuous bravery during operations applied the German trenches south of Mauquissart. When himself wounded, on the 25th Beptember 1915, he found a badly wounded soldler of the 2nd Lelestershire Regiment behind the first line German trench, and though urged by the British soldler to saw himself, he remained with him all day and night. In the early mornirg of the 20th September, in misty weather, he brought him out through the German wire, and, leaving him in a place of comparative safety returned and brought in two wounded Guikhas one after the other. He then went backin broad daylight for the British soldier and brought him in also, carrying him most of the way and being at most points under the enemy's

Drittel Officer of another regiment lying close enemy.

The appointment, made at the Delhi Durbar to the enemy he drawed him into a temporary in 1911, that in future Indians would be elicable whether, which he himself had made, and in for the Victoria Cores cave catifaction which which he had already boundaged four wounded was increased during the War by the award of men. After bandaging his sounds he heard that description to the following:— award of calls from the Adjutant of his own Regiment who beyor Khuladad, 120th Balachis.—On airt was lying in the opn severely wounded. The October 1014, at Holl bale, B igium, the Internet were not more than one hundred yards tich of or in charge of the detachment having distant, and it recemed certain death to go out setion is a trial, Septy kingadad, though mine or going out to me adjuding, and observe to related the first support of the gond distance that the other five men of the gond distance that this was not permitted, he stripped off his own from killed.

Nalck Durson Sing Negl, 1-50th Garhwal and stayed with him till just before dark, when him of the returned to the relater After dark he carried the graduatth November 1913 near Festibert. the other five men or constitute of the helico.

Naich Durwan Sing Negl, 1-59th Garhwal he natured to the shelter. After mark the nature of the first wounded officer back to the major the first wounded officer back to the

Sepoy Chatta Sinch, 6th Bhopal Infantry,— For most conspicuous bravery and devotion to duty in leaving cover to assist his Commanding Officer who was lying wounded and helpless in the open. Sepoy Chatta Singh bound up the officer's wound and then dug cover for him with his entrenching tool, being exposed all the time to very heavy rife fire. For five hours until nightfall he remained beside the nounded officer, shielding him with his own body on the exposed side. He then, under cover of darkness, went back for assistance, and brought the officer into safety.

Naick Shahamad Khan, Punjabls—For most conspicuous bravery. He was in charge of a machine-gun section in an exposed position in front of and covering a gap in our new line within 150 yards of the enemy's entrenched posi-tion. He beat off three counter-attacks, and worked his gun single-handed after all his men, except two belt-fillers, had become casualties.

For three hours he held the gap under very beavy fire while it was being made secure. When his gun was knocked out by hostile fire he and his two belt-fillers held their ground with rifles till ordered to withdraw.

With three men sent to assist him he then brought back his gun, ammunition, and one severely wounded man unable to walk. Finally, he himself returned and removed all remaining arms and equipment except two shovels.

But for his great gallantry and determination Lance-Najek Lala, 41st Dogras - Finding a our line must have been penetrated by the



The Indian War Loan.

A report on the results of the Indian War Loan, by the Controller of Currency, was issued in September, 1917.

The lean was for an unlimited amount and was divided into three parts—

- (I) The 5 per cent. War Loan 1929-47.
- (II) The 6½ per cent. War Bonds 1920 and War Bonds 1922.

(III) Post Office 5-years Cash Certificates.

The 5 per cent. War Loan 1929—47, was issued at a discount of 5 per cent. and the 52 per cent. War Bonds 1922 and War Bonds 1922 were issued at par and free of income tax. Subscriptions to the 5 per cent. War Loan 1929—47 carry with them the right of conversion of the 3 and 3½ per cent. leans and the 4 per cent. Conversion Loan of 1916 according to the terms specified in clauses 3 and 4 of the Notlification. The loan was open during the period from the 15th March to the 15th June 1917.

Contributions to the Loan :-

Province.			-	Amount.
Bombay Bengal				Rs. 10,05,08,600 10,46,54,100
Punjab United Prov	inces	••	::	3,55.68,800* 8,21,32,300

Burna	Province.	Amount.
Burna		Rs.
Assam 0,02,600 Minor Administrations 1,55,67,100 Hyderabad 1,12,80,800 Gwallor 88,21,100 Mysore 54,35,500 Baroda 31,57,800 British Treasury Bills	Burma	2,29,30,200 2,00,72,400 74,39,500
Baroda 31,57,800 Subscriptions by means of 1,64,11,600 British Treasury Bills	Assam Minor Administrations Hyderabad Gwallor	54,87,900 0,02,600 1,55,67,100 1,12,80,800 88,21,100 54,35,500
Subscriptions under the 24,27,600 Government scheme.	Subscriptions by means of British Treasury Bills Subscriptions under the	31,57,800 1,64,11,600

 Includes 40 lakhs and 25 lakhs subscribed by His Highness the Kawab of Bahawaipur and His Highness the Maharaja of Patinia respectively.

Total ...

39,96,97,900

The above classification has been made according to the place of payment, and is admittedly defective insamuch as it does not exhibit accurately the efforts of the several Provinces.

The total of the subscriptions under the several heads is shown in the following table :--

	5% War Loan 1929—47.	51 % War Bonds 1920.	51% War Bonds 1922.	Total.
(i) Main section (ii) Government Scheme (iii) Treasury Bills	Rs. 10,80,85,400 2,09,700 97,00,500	Rs. 16,77,82,500 13,82,400 66,51,100	Rs. 10,49,00,800 7,45,500	R5. 38,08,58,700 24,27,600 1,61,11,600
Total	11,81,45,600	17,58,16,000	10,57,36,300	39,96,97,900

The total allotment on account of subscriptions to the lean paid in England in British treasury bills up to date has amounted to Rs. 1,64,11,600, clistributed as follows:—

5% War Loan 1929—47.	51% War Bonds 1920.	51% War Bonds 1922.	Total.
Rs.	Rs.	Rs.	Rs.
07,60,500	66,51,100	Na	1,04,11,600

The announcement of the conditions of the conversion term was received with general approval in India. Whilst the conversion term were regarded as rather too narrow, the thread five year War Bonds were greeted as entirely suited to Indian conditions and the cast certificates were specially regarded as an entirely appropriate encouragement to saving India. In many parts of the country great public enthusiasm was enlisted on the side of the Loan. Unofficial committees were estated who worked assiduously to induce the public to subscribe. This developed into its contract of the contract

tending of all between the latts and prints, at the stime the street tending in most largely to the source source to be a tree to the street of the street o

According to a figure of the light of the filter property, the feed to be the life of the lith is present, the feed to be little star lith, it agrees to feed to be the first of the light of the light of the feed to be little star light of the feed to be the feed to be light of the feed to be light of the feed to be light of the feed to be light of the li

The Community to the day beginning the fall to which reference has been much, gives the following fourt.

The treat tout Center etc.

				$R*_{\bullet}$
Main Seaten				25,56,15,560
Trasmy July	611	relient	In	
Lorison	4.1	, ,		1,61,11,600
Port Office Section				2,21,09,550
Costi Cettificates				7,10,93,975
			_	

Total Bs. .. 50,00,00,595

Applications to the War Loan received, through Port Office are as under:—The figures for the Port Office section are for the period ended August 20, and Cash Certificates for the Period ended August 20.

Provinces.	Post Office.	Certifi- cates.	Total.
Bombay Punjah Central	C1 (0 (00)	JI#. 1,84,85,455 1,50,81,030 1,32,03,822	1.92.40.9391

Prospec	* *	Dat Ogaza	Carli Certin-	Total.
United Pro	j).	Rs.	Pa,	In.
a forces Execut		51,57,675	#4,64,393 69,94,820	1,40,20,270 17,66,629
Untirn Vadias	**	17,50%,500 19,55%,500	54,50,110 24,47,456	72,42,410 43,63,500
lilling at 1 - disis n devate	•	11,00,460 3,20,500	23,95,000 8,77,200	67,54,466 12,00,669
		1	1	

A Gold Mint.

Reference will be found in the section relating to Currency to the question of establishing a gold miss in India. This is one of the hardy annuals of the Indian Currency discussion.
When, on the report of the Finder Commission
of 1808, it was definitely decided to take India to a rold standard supported by an active gold currency, a roll mint was regarded as an integral leature of the relieme. Proposals nero framed by the flovernment of India and the project by the Hovernment of India and the project formed the fullect of continued correspondence tetrace the Government of India and the Home authorities. Whilst this was proceeding the beginnings of the Gold Standard Reserve mere established out of the profits on continu rupers and the early efforts to establish an active gold circulation were not successful. When the discussion relating to the establishment of a mint was approaching its climax it was suddenly switched oil by the suggestions of the Treasury Officials that it was unnecessary. Thereafter the project lapsed although a large section of Inilian financiers continued to press for a gold mint. This, like other currency questions, was automatically solved during the war; the need for converting gold buillion received in India into currency was so insistent that a gold mint has sanctioned. In the course of a speech in the Imperial Legislative Council on the 5th September 11 in 11 providenal measure subject to reconsideration provising incastro subject to recommeration after the war, to our undertaking the colonge of sovereigns at Hombay, a branch of the Royal Mint being constituted there for the purpose. These arrangements will be given effect to as soon as possible, but the settlement of details will necessarily take a little time."

It is understood that whilst in one sense a part of the Rombay Mint and in the same enclosure, the gold mint will be entirely under the direction of the management of the officers of the Royal Mint. It is also stated that the productive capacity of the mint is based on the column of thirty thousand sovereigns per diem.

Racing.

Calcutta.

[Season 1016-17]. ..

The Victor's Cup. Distance 11 miles --Mr. R. R. S.'s Bachelor's Wedding (Oat, .. 13 5 lbs.), Rulz Mr. R. R. S.'s Magyar (Ost, Blbs.), F. Tem-.. 2 - -Mr. Wadia's Fizyama (82t 111bs.), Barrett. . 5 Ralkut of Balkanthpore's Bydand (0st), Buckley Also Ran:-Kiltol (9st. 3lbs.), Spenser (Ost, 3lbs.) and Buskin (8st. 11lbs.). Won by a short head; one and three-quarter length; one and a quarter length. Time. -3 mins. 0.3-5 secs. King Emperor's Cup. Distance 1 mile .--

Mr. R. R. S.'s Silver Balm (Ost. 31be.), T'. Templeman .. - 1 r. M. Goculdas' Salandra (8st. 7lbs.), W. Huxley Raikut of Baikanthpor's Bydand (0st.3lbs.), Buckley Mr. Thaddeus' Evett (9st. 3lbs.), Rulz .. 4 Won by 1 length, 11, 41; Time-1-391.

The Governor's Cup. Distance 11 miles .-Mr. M. Goculdass' Matchlock (Est. 7lbs.). W. Huxley ... Wilton Bartlet's Santa Barbara (7st.

10lbs.), Lynch M. Goculdass' Royal Ambition (8st. 1lbs.), Flynn Mr.W. Saunder's Second Edition (7st. 11lbs.) carried 7st. 13lbs.), Wing ... Also Ran: - Marcianus (6st. Olbs.), Screamer

(7st. 10ibs.), and Shining Way (0st. 7lbs. carried 0st. 13lbs). Won by three quarter length; half a length; four lengths. Time. 3 mins. 4 secs. The Metropolitan. Distance 6 furlongs .-

Mr. W. Lauder's Symrex (8st. 10lbs.), Stokes Mr. Thaddeus ' Pastimo (8st. 12lbs.), Ruiz. . 2 Messrs. A. Nanjee and Ramshaw's Pantomime (8st. 3lbs.), Flynn ...

Mr. Palonjee's Radiant (Ost. 3lbs.), Wing ... 4 Also Ran:—Salandra (9st. 12lbs.), Dersing-ham (8st. 9lbs.), Foffeit Lass (8st. and Widglewa (7st. 10lbs).

Won by three-quarters of a length; a neck; one and a half length. Time:—1 min. 13 3 secs.

Prince of Wales ' Plate. Distance 1 mile .--

Messrs. A. Nanjee and Ramshaw's Pantomime II. (8st. 6lbs.), Flynn .. 1 Mr. Goculdasa' Swankor (8st. 11lbs.), W. Huxley

Mr. Y. Marshall's Born Lee (7th, Olber, earried 74% bibyd, Vick

Mr. Wilton Bertleet's Fonta Dart ura (7et 5Red, Lynch Also Bant-Beett (pet): Derloghem (est.

Iolia), Symics (Privil s.), and Abridate (bat 7[hs).

Won by two and a light freiths; one and a half lengths; short bend. Time,-1 min. 40 area.

Burduan Cop. R. C. and Met-pec,-Mr. Gueuldace! Politica (10.2, 15lbs.). Northmore ..

Mr. A. Conlugham + Blackmaller (931,161b4). Chik - -

Won comfortably by one length; half a length. Thuc .- 3 mins, 20 1-5 rem.

The Cooch Behar Cup. Di tance 11 millione Mr. Gotuldaer * Politian (est. 12ffe.), W.

.. Mr. Goculdaes* Matchlock (7st. 9lbs.), Flynn Mr. Goculdary' Royal Ambition (7st, ofbr.).

Purtoosingh. . . Mr. Mercen's Dereinghaus (Oct. 10ffa.), Barrett

Won by three-quarters of a length; same; a neck. Time-2 mins, 6 3-5 recs.

Calentta Plate. Distance 6 furlongs .--

Me-vra. Goculdass and Garda's Salandra (8st Olbs.), W. Huxley Mr. R. E. S.'s Patrick (Ost, 2Res.), F. Temple. man . . Mr. Pallonji's Radiant (Ost. 3ibs.), Ruiz .. 5 Mr. Walsh's Engle's Nest (8st. 3lbs.), Wing, 4 Won comfortably by two lengths; one and three-quarters length; a neck. Time,-1 min. 14 accs.

The Grand Annual. Distance 2 miles over 8 flight of hurdles .-

Mr. Kelso's Screamer (10st. 8lbs.), A. Scott. 1 Mr. Goculdass' Knight's Key (11st), Northmore ... Zemindar of Nezergunge's Canberra (10st.

12lbs.), Ferguson Mr. Conningham's Blackmailer (10st. 71bs.), Clarko

Also Ran:-Dolly Dimple (10st, 2lbs.), Lesto *(10st.) and Brandichoc (0st. 5lbs). Won by three and a half lengths; same

distance; one length. Time. -3 mins. 40

Macpherson Cup. Distance-St. Leger Course. (1,m. 6 fur. 132 yards). General Nawabzada Obaldulla Khan's Kiltoi (Ost 5lbs.), Ruix

man	mlme, II. (8st. 4lbs.), Flynn
Mr. Wilton Bartleet's Santa Barbara (7st,	Mr. Bander's Symrex (9st.), Stokes
carried 7st. 1lb.), Lynch Mr. Sander's Second Edition (7st 5lbs,	Also Ran:—Buskin (8st. 10lbs.), and Ev (8st. 2lbs.).
carried 7st. 6lbs.), Stokes Also Ran.—Knight's Key (8st. 2lbs. carried 8st. 3lbs.), Aberdare (7st. 11lbs. carried	Won by a short head; three-quarter lengt one length. Time.—1 min. 13 3.5 sees.
8st. 3lbs.), Aberdare (7st. 11lbs, carried 8st 4lbs.), Laveco (7st 6lbs.), Esperance (7st. 3lbs.).	Chewringhee Plate. Distance 7 furlongs.— Mesers. Nanjee and E. Ramshaw's Pani
Won by three-quarter length; a short head; two lengths. Time—3 mins. 92-5	Jr. Goculdas's Swanker (8st. 6lbs.),
The Merchants' Plate. Distance 14 miles	Mr. Lauder's Symrox (8st. 9lbs.) Dead Mr. Thaddeus, Evett (9st. 1lb.) heat.
Mr. Goculdass' Royal Ambition (6st 1lb.),	J.cuiz.
Mr. Kelso's Screamer (7st 11lbs, carried	Also Ran:—Dersingham (6st. 13lbs.).— Won by a nock; three length from Eve
7rt 13ibs.), Wing	and Symrex who dead-lighted. Time- 1 min. 26 3-5 secs.
Mr. Wilton Bartleet's Santa heat 8	
Barbara (7st 1210s.), Lynch J	King Emperor's Cup. Distance 1 mile
Also Ran —Midsand (0st. 8lbs, carried 6st. 12lbs.).	Mr. R. R. S.'s Magyar (9st. 3 lbs), Templeman
Won by two lengths; three lengths: dead- heat for third place. Time.—2 mins. 34 1-5 sees.	Mr. Goculdass' Swanker (9st. 3 lbs), Flynn
International Pony Plate. Distance 7 fur-	Raikut of Baikanthpur's Bydand (Ost. 3 lbs.), Rose
longs.—	Mr. Allan's Marolanus (Ost. 3 lbs), Heron .
Mr. Goculdass' Gipsy's Advice (9st. 13lbs.), W. Huxley	Also Ran.—Salandra (9st. 3 lbs.), Evet (9st. 3 lbs.), and Silver Balm (9st. 3 lbs.).
Mrs. John Peter's Regal Sally (8st. 8lbs. carried 8st. 9lbs.), F. Templeman 2	Won by one length half a length, and thre quarter-length. Time—1min. 40 1-5secs.
Mr. Butler's Nareb (Ost. 10lbs.), Firth 3	The Burdwan Cup. Distance St. Leger Cours. Mr. Coningham's Blackmaller (10st. 3 lbs.)
Won by half a length'; one and three-quarter length. Time.—1 min. 31 1-5 secs.	Williamson
Sandown Park Plate, Distance 6 fur-	Mr. Pugh and Olphert's Lesso (9st. 10 lbs.) Crowden Mr. Edward's Whippoorwill (9st. 10 lbs.)
Mr. W. Lauder's Symrex (8st 2lbs.), Stokes. 1 Mr. Goculdass' Vergo (8st. 3lbs.), W. Hux-	Heron
ley	Also Ran.—Yuan (9st. 10 lbs.).
Mr. Thaddeus' Pastime (8st. 8lbs.), Ruiz 3 Messrs. Nanjee and Ramshaw's Panto-	Won by three and half lengths, three longths; seven lengths. Time.—3mins. 24secs.
mime II. (7st; 10lbs.), Flynn 4	Bombay.
Won by a neck; one and a half length; a head. Time.—1 min. 14 secs.	The Byoulia Club Cup. Distance 1! miles
The Gunny Meah Cup. Distance 13 miles	Mr. E. L. F. DeSoysa's Summer Thyme (7st. 4lbs.), J. Hose
Mr. Galstaun's Wallace Plaid (6st. 13lbs.), Purtoosingh	Mr. M. Goculdass' Politian (9st. 7lbs.), W.
Mr. D. Norton's Simon's Light (7st.) Vincent	Mr. Wilton Bartleet's Santa Barbara (6st. 13lbs., carried 7st.), Lynch
Mr. Bate's Masonic (8st. 5ibs.), Firth 3 Mr. Rosco's Naini (7st. 3ibs. carried 7st. 7ibs.),	Genl. Nawabzada Obaidula Khan's Kiliol (9st. 12lbs.), J. Trenoweth
Stokes 4	Also Ran,-Magyar (9st, 12lbs.). Silver
Won by a head; two and a quarter lengths; two lengths. Time.—2 mins. 48 4-5 sees.	Balm (9st. 111bs.), Bachtlor's Wedding (9st. 71bs.), Spenser (6st., carried 7st.
Hooghly Plate. Distance 6 furlongs	211 1 25-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	bibs.), Matchlock (8st. 1lb.), Royal Ambition (7st. 12lbs.), Evett (8st. 6lbs.),
Mr. Thaddeus's Pastimo (8st. 13lbs.); Rulz. 1 Mr. Goculdass' Swanker (8st. 8lbs.), W.	Also Ran.—Magyar (94t. 121bs.), Silver Balm (9st. 111bs.), Bachtlor's Wedding (9st. 71bs.), Spenser (6st., carried 7st. 51bs.), Matchlock (8st. 11b.), Royal Am- bition (7st. 121bs.), Evett (8st. 61bs.), Screamer (6st. 31bs.), Laveco (6st. 111bs., carried 7st) and Kim III. (6st. carried the 101bs.)

Mr. R. R. S.'s Magyar (Ost Olbs.), F. Temple-Messrs. Nanjee and Ramshaw's Panto-(8st. 4lbs.), Flynn Symrex (9st.), Stokes .. 4 Buskin (8st. 10lbs.), and Evott rt head; three-quarter longth; Time.-1 min. 13 3-5 sees. ate. Distance 7 furlongs .e and E. Ramshaw's Panto-t, 12lbs.), Flynn . . -- 1 's Swanker (8st. 0lbs.), W. Symrex (8st. 9lbs.) Dead Evett (9st. 1lb.) heat. singham (6st. 13lbs.). ck; three length from Evett who dead-heated. Time-Б вест. ason 1017-18. 7 Cup. Distance 1 mile. -'s Magyar (9st. 3 lbs), I'. Swanker (9st. 3 lbs), J. ilkanthpur's Bydand (Ost. *** ** 3 rolanus (Ost. 3 lbs), Heron .. 4 landra (9st. 3 lbs.), Evett ind Silver Balm (9st. 3 lbs.). gth half a length, and three h. Time-1min. 40 1-5secs. Distance St. Leger Course-'s Blackmaller (10st. 3 lbs.), ... Diphert's Lesso (9st. 10 lbs.), ... 2 Whippoorwill (0st. 10 lbs.), nn (9st. 10 lbs.). o and half lengths, three on lengths. Time.—3mins. Bombay. Cup. Distance II miles .--DeSoysa's Summer Thyme .. 1 s' Politian (9st. 7lba.), .. 2 • • rtleet's Santa Barbara (6st. d 7st.), Lynch • • da Obaldula Khan's Kiltol J. Trenoweth gyar (94t. 12lbs.), Silver 11bs.), Bachtlor's Wedding Spenser (0st., carried 7st., lock (8st. 1lb.), Royal Am-12lbs.), Evett (8st. 6lbs.), 3lbs.), Laveco (6st. 11lbs.)

3

3

Won by one and three-quarter length; a head between second and third; half a length between third and fourth. Time.— 2 mins, 26 secs.

The Grand Western Handicap. Distance 1 mile.-

Messrs, F. M. Garda and M. Goculdass' Salandra (9st. 111bs.), W. Huxley

Mr. T. M. Thaddens' Evett (8st. 21bs., carried 8st. 3lbs.), Rulz Messrs, J. H. Skelton and W. R. Pechey's

Llangeinor (8st. 6lbs.), Pulliu .. 3 Mr. M. Goculdass' Politian (8st. 12lbs.), Bowley

Also Ran.—Silver Balm (0st. 12bs.), Criton (8st.), Kiltol (9st. 5bbs.), Silver Thrush (8st. 12bs.), Joyous Gard (7st. 2bs.), Triple Alliance (7st. 6bs.), Screamer (7st. 5ibs.), Sammer Thyme (7st. 3bs., carried 7st. 3bs.) 7st. 8lbs.), Thunder (7st. 1lb., carried 7st. 2lbs.), Santa Barbara (6st. 1llbs., carried 6st. 13lbs.),and Carpentia (6st., carried Ost. 13lbs.).

Won by half a length, a neck dividing each of the others. Time.—1 min. 39 secs.

he Bombay City Plate. Distance 11 miles .-Mr. R. R. S.'s Magyar (9st. 3lbs.), J. Ruis., 1

Mr. R. B. S.'s Silver Balm (9st. 10lbs.), F. Templeman

General Nawabzada Obaldulla Khan's Elltol (9st. 3lbs.), J. Trepoweth

Mr. M. Goculdass' Politian (9st. 3ibs.), W. Huxley

Also Ran,-Cromdale (9st.)

Won by 3 lengths, half length between second and third and 4 lengths between third and fourth. Time .- 2 mins, 0 secs.

The Majabar Hill Plate. Distance about 6 furlongs .-

Messrs. F. M. Garda and M. Goculdass' Salandra (9st. 8lbs.), W. Huxley ...

Mr. R.R. S.'s Patrick (Ost. 3lbs.), F. Templeman

Mr. B. R. S.'s Bachelor's Wedding (9st. 3lbs.), J. Ruiz Messrs. Heath and Stowart's Roi d' Ecosse

(8st. 9lbs.), F. Hardy

Won by 2 lengths; 11 lengths between second and third; 21 lengths between third and fourth. Time.—1 min. 14 secs.

The Willington Plate, Distance 11 mile .-

Mr. M. Goculdass' Politian (9st. 2lbs.), W. Huxley Mr. E. L. F. Do Soysa's Summer Thyme (7st.

11b.), J. Rose Mr. M. Goculdass' Gibberish (6st. 13lbs.), Purtoosingh .

Mr. T. M. Thaddens' Evett (8st. 9lbs.), I. Ruiz ..

Also Ran.—Magyar (0st. 12lbs.), Bachelor's Worlding (0st. 10lbs.), Silver Thrush (8st. Olbs.), Pantomime II. (8st. 4lbs.), Thunder (7st. Ilbs., carried 7st. 2lbs.), and Santa -Barbara (6st. 13lbs.).

Won by a neck; a head between second and third; one length between third and fourth Time .- 2 mins, 0 secs.

The Mansfield Plate. Distance about 6 fur-

Mr. M. Goculdass' Vergo (0st.), W.

Huxley UDead Mr. J. L. Ainsworth's Vanity Box licat 1 (6st. 4lbs., carried 6st. 12lbs.), J.

Messrs. J. H. Skelton and W. P. Pechcy's Llangeinor (8st. 2lbs.), Pullin

Mr. T. M. Thaddous' Pastime (8st. 6lbs.), J. Ruiz ..

Also Ran.—Forward III. (8st. olbs.), Forfeit. Lass (7st. 11lbs.), Criton (7st. 5lbs.), Black Kito (6st. 10lbs., carried 7st.), Tootsie (7st. 2lbs.), Triple Allianco (6st. 10lbs., carried 7st.) and Premiero (8st. 01bs.), (6st., carried 7st. 51bs.).

Dead heat; head; neck. Time .- 1 min. 14 secs.

Flying Plate. Distance 5 furlongs (straight) .~

Mr. M. Goculdass' Forward III. (8st. 3lbs.). Bowley

Mr. M. Goculdass' Verge (8st. 8lbs.), W. Huxley

Mr. M. Goculdass' Forfeit Lass (7st. Elbs.), Purtoosingh

Messrs. Heath and Stewart's Tootsic (7st. 3lbs.), Harrison

Also Ban.—Patrick (9st.), Black Kite (6st. 12lbs., carried 0st. 13lbs.), Pastime (8st. 18lbs.), Blacked Grove (0st. 2lbs., carried 7st.), and Kenliworth (6st., carried 6st. 111bs.).

Time.-574 secs.

Innovation Plate. Distance about furlougs .-

Messrs. J. H. Skeleton and W. P. Peckey's Liangeinor (8st.), Bowley

Mr. R. R. S.'s Criton (8st.), Pullin ... Mr. J. L. Alusworth's Vanity Box (7st. 31bs.), Rose ...

Mr. T. M. Thaddens' Pastime (Ost. Clbs.), J.

Also Ran.—Primrose Morn (8st. 12lbs.), Silver Thrush (9st.), Tootsie' (8st.), Pantomime II (8st. silbs.), Dersingham

(8st. 3lbs.), Triple Alliance (7st. 10lbs.), Summer Thyme (7st. 7lbs.), Laveco (7st. 3lbs.), and Miss Rollestone (7st. 11b.).

Won by 11 lengths, 1 length botween second and third and a neck between third and fourth. Time .- 1 min. 30 secs.

The Turl Club Cup. Distance 11 miles .-

General Nawabzada Obaldulla Khan's Singer (8st. 10lbs.), Collis ...

Mr. R. R. 8.'s Majbur (9st. 12lbs.), F. Hardy. Mr. R. R. S.'s Kayld (9st.), J. Rulz.. General Nawabzada Obaidulla Khan's Purity (8st.), Pullin

Also has selected to Get, His is Get I leb H. (Set, Rick L. 1991 (Set, Cits.), Ruly West Fat, His A. Schaller, Get, His A. Ruly West Fat, His A. Schaller, Section Get, His Section Get, Library Get, Silvania (Set, Helse, Carlet Job.), Garal (Get, His, Carlet Job.), Garal (Get, His, Carlet Job.), Fred His Republic, Carlet Job.), Fred Cet, Carlet Get, Library Get, His Carlet Get, Library Get, His Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Library Get, Carlet Get, Carl

We object desthis later the letween second and chirt; also be between thirt as it with all the second and the second seco

Tr. Derton Dely, Distance H mileton Mr. R. R. S. & Majler (Oct. 80 c.), F. Torre H taxts

Mr. R. R. S.'s Loyd Cost, Med. J. Rule ... tortetal - Nawat and - Oboldula Khan's

Ato Ben - Irrelett (set. 50a). Tajilrentok (set. 50a). Advance (set. 10a, carried set. 20 a). and Beren (set. 10a, carried of, 420a).

Wenty Circults; a neck ta head. Time .-

The Park of Piste, Distance I mile.—

Mr. B. R. Sie Majtur (est. Illies), F.

Tomi Stian

He, All bin Taine's White Bilk (5.4, 710...).
J. Rule
Messes, J. Stewart and Beath's East Court,

General Navabrada Oluddulla Khan's Gold Tich II (9ct.), Collis

Also Ran.—Heernt (Ost, Sibe.), Singer (Pet, 410s.), Black Hissar (Set, 210s.), and Haven (Ost, 110s.)

Won by I length; 2 lengths between second and third; 2 length between third and Jourth, Time,-I min, 40 secs.

The Second D alors' Plate. Distance I mile.-Winner Rs. 5,600, record Rs. 1,000, third Rs. 500 for newly landed Arabs.

Mesers, M. Goculdass' and P. Mathradass' Rose Hill (7st. Pibs.), Purtoosingh

Also Ran.—Full House (8st. 12lbs.), Launceston (8st. 12lbs.), Edward (8st. 12lbs.), Machine Gun (8st. 12lbs.), Pacific (8st. 12lbs.), Pacific (8st. 12lbs.), Pacific (8st. 12lbs.), Pacific (8st. 12lbs.), Pacific (8st. 12lbs.)

Jack (Cat.).

Won by 1 length, half length between second and third, and a length between third and fourth. Time.—1 min. 51 1-5 sees. The Melton Plate. Distance about Cfurlongs .--

Movers, Dannes and A. S. (Omer's Niver (Tet. 8 Hea), Japheth Ded Mr. Heath's Innucence (8st. 10 Heat), Chart

Perry A. K. Dakayel and E. Ghumla's

Mesers, A. E. Dakayel and E. Glimmla's

M cors. A. S. Comer and A. Nanjec's Four Acre (24.), A. Templeman

Also Ran. - Ubool.ri (e.t.), Egislator (est.), Sir Martin (e.t.), Garland (b.t.), Starling (est. 2lies.), Natal (ett. 10lbs.), Second String (est. 10lbs.), Adil (est. elles.), Union Jack (est. elles.), and Argonaut (est. 2lies.)

Don't heat; head; neck. Time-1 min. 25

Run Off,-Messer, Downes and A. S. Offiner's Niger (7st, 8lbs.), Japlieth

Mr. Heath's Innocence (8-t. 101bs.), Bowley, S

Wou by 24 lengths. Time .- 1 min. 25 sees. The Tom Le Meaurier Plate. Distance 1 mil. .-

Mr. R. R. S.'s Zaki Pasha (8st. 121ba.), F.

Mr. Ali bin Talib's Tamooz (8st. 6lbs.),

J. Holz
Mr. Hammond's Duchan (8st. 2lbs.), Bowley ?

Mr. Dam Cowasjeo's Red Cross (9st. 21bs.)
P. Hardy

Also Ran.-Biglig(8st. 6lbs.), Burg (8st. 2lbs.), and Ruby Fish (7st. 4 lbs.)

Won by 13 lengths : a head between second and third and half length between third and fourth. Time-1 min. 50 secs.

The Gough Memorial Plate. Distance about 6 furiouss.—

Mr. Dara Counsjee's Red Cross (9st. Sibs.), F. Hardy

Trenoueth
General Nawabzada Obaldulla Khan's
Ruby Fish (6st., carried 6st. 11lbs.),
Purtoosingh

Won by 11 lengths; 1 length between second and third, and a neck between third and fourth. Time.—1 min. 21 secs.

The Sir Cowasjee Jelangir Plate. Distance about 6 furlongs.—

Messis, Stowart and Heath's East Court (94t. 4lbs.), Bowley

Mohael (84t. 2lbs.), Collis ... Mr. Dara Cowasjee's Red Cross (94t. 9lba), T. Hardy Abo Ran.—Zski Pasha (9st. 121bs.), Vellard (7st. 111bs.), White Silk (9st. 91bs.), Nizam-ul-Mulk (8st. 81bs.), Royal Court (6st. 2lbs.), and Osproy (7et. 1lb.).

Won by half a length: three-quarter length between second and third; a length between third and fourth. Time .- 1 min. 21 sccs.

The Gaye Plate. Distance 11 miles .-

Mr. B. R. S.'s Majbur (0st. 121bs.), F. Templeman

General Nawahzada Obaldulia Khan's

Singer (9st. 3lbs.), Collis ... Messra, M. Goculdass and P. Mathradass' Ruby Mine (8st.), J. Flynn

Obdaldulla Khan's General Namabzada Purity (8st. 121ba.), T. Hardy

Also Ran.—Beyrut (9st. 51bs.), White Ellk (6st. 21bs.), Money Gold (6st. 91bs.), Sir Knight (6st. 41bs.), Royal Court (7st. 11bs.), Ajax (7st. 131bs.), Section (7st. 111bs., carried 8st.), Nizam.ui-Mulk (7st. 101bs.), Excelsior (7st. 51bs., carried 7st. 101bs.), Gazal (7st. 31bs.), Malacca (7st. 31bs.), Malacca (7st. 31bs.), Malacca (7st. 31bs.), Malacca (7st. 31bs.) 31bs.) and Pasha (Gst., carried 7st.).

Won by 11 lengths; half length; 1 length. Time .- 1 min. 212 sccs.

Poona.

The Governor's Cup. Distance R. C. and distance. -

General Kawabzada Obaldulla Khan's Purity (9st. 11b.),

Rulz ... M. Goculdass and Dead heat. I Mathuradass Ruby Mine (8st. 3 lbs.), W. Husley

. Mr. Heath's Collingwood (9st. 4 lbs.), Bowley Mr. 8. A. Wahed's Peacemaker (8st. 5 lbs.), Rose

Also Ran,—Gold Fish II (0st. 12 lbs.), Kayld (9st. 10 lbs.), Longboat (8st. 1 lb.), Beyntf (9st. 6 lbs.), Bluey Lee (6st. 8 lbs.), Sir Koicht (8st. 8 lbs.), Nawabrada (2st. 1 lb.), Black Hussar (1st. 13 lbs.), Tall-mulook (1st. 7 lbs.), Mazzool (8st. 3 lbs.), Gazzl (7st. 6 lbs., carried 7st. 7 lbs.), and Advance (6st. 12 lbs.).

Purity and Ruby Mine dead-heated, 11 length, neck. Time-3 min. 7 secs.

The Western India Stakes. Distance 11 miles,-

Hurley

General Nawabzada Obaldulja Khan's Spenser (6st., carried 6st. 12lbs.) Purtoosingh 1 Goculdass' Swanker (9st. 21bs.) W.

· Major Sir G. Beaumont's Dorian (6st., carried 6st. 8lbs.) Japheth ...

Mexica. Ramshaw's and A. Nanjec's Pantomime II (8st. 6 Tbs.), Rose

Also Ran :- Kiltoi (Ost. 12 lbs.), Bachelor's MNO MAIR :—MRION (1991, 12 107.), B2CDC1072
Wedding (1991, 8 lbs.), Footman (721, 7 lbs.),
Matchlock (731, 12 lbs.), Royal Ambition
(731, 6 lbs., carried 731, 7 lbs.), Thunder
(Est. 12 lbs.), Triple Allance (841, 6 lbs.),
Silver Thrush (841, 4 lbs.), Dersingham
(841, 1 lb.), Brownii (641, 12 lbs., carried
751, 4 lbs.), Sercemer (641, 12 lbs., carried
751, 1 lb.), and 85 Gutbles (641) 7st. 1 lb.), and St. Guthlao (6st.).

Won by I length, neck, neck. Time-2 min. 13 secs.

Aga Khan's Cup. Distance 14 miles .-Mosting's and Guthrie's Thunder (7st.

10lbs.), Harrison ... Mr. M. Goenidaes' Swanker (24, 1 lb.),

W. Huxley ... • • Mr. Merven'e Dersingham (7st. 10 lt/s., car-

ried 7st. 11 lbs.), Pullin Nawabzada Obaidulla Khan's

Kiltoi (9st, 3 lbs.), Ruiz ... Also Ban :- Magyar (9st. 3 lbg.), Footman

(7st. 7 lbs.), Bydand (7st. 10 lbs.), Brownle (7st. 7 lb3).

Won by head, 2 lengths, 1 length. Time— 2 mln, 39 sees.

St. Leger Plate. R. C. and Distance .-

Miss R. F. Petit's Screamer (7st. 11b., carried 7st. 2 (bs.), Lynch

H. H. the Jam Sahib's Brownii (6st. 7 lbs., carried 6st. 0 lbs.), Japheth

Mr. M. Goculdaes Matchlock (7st. 121bs.), Firm

R. R. S.'s Bachelor's Wodding (9st. Mr. 6 lbs.), Hardy

Also Ran: —Kiltol (9st. 12 lbs.), Spenser (7st. 7 lbs.), Footman (7st. 6 lbs.), Royal Ambitton (7st. 7 lbs.), Joyous Gard (6st. 3 lbs., carried 7st. 6 lbs.), and Gravelotte (6st.).

Won by 1 length, 3 lengths, 2 lengths. Time-2 min. 53 secs.

Turf Club Cup. Distance 13 miles.—

Mr. A. S. Oomer's Nawabzada (8st. 1 lb.), Japheth

Messre, A. Nanjee and U. Moosajee's Gazai (7st. 6 lbs.). Harrison ...

Mr. R. R. S.'s Kayid (9st. 10 lbs.), Hardy.. : Mr. T. Lamail's Ajmer (6st. 6 lbs., carried 6st. 12 lbs.), Purtoosingh ...

Also Ran: Gold Fish II (9st. L2 lbs.), Collingwood (9st. 9 dbs.), Beyrut (9st. 6lbs.), Ruby Mine (8st. 12 lbs.), Engrut (7st. 13 lbs.), Section (7st. 12 lbs.), Black Hussar (7st. 11 lbs.), and Morning Light

Won by head, neck, 1} length. Time .-2 min. 63 secs.

Poons Derby. Distance 12 miles-

Mr. Heath's Collingwood (9st. 7 lbs.), Bowley 4.0 ...

Mr. All bin Tallb's Mooltan (8st. 11 lbs.), Rulz..

Mr. S. A. Wahed's Black Hussar (6st.), Rose. 3 Messis, Goculdass and Mathradass' Rose (Hill Sat. 12 lbs., carried 7st.), McCownn...

ALTO	1876
Fir. S. A. Wahed's Black Hm err (7st, O Hea), Rose	Lucknow.
Also Ran (-White Silk (6st. 7 Hs.), Gold Fish H (6st. 2 Hs.), Eshaz (6st.), Act of Royals (sst. 11 Hs.), Heyrrit (sst. 10 Hs.), Zall Padin (sst. 8 Hs.), Longboat (7st. 4 Hs.), and Dutlein (sst. 6 Hs.).	Mr. M. Gorubtase Syrigton (10.4, 7115). W. Rustry Mr. John Prier's Lady Runty (5.1.), Rules
Won by I length: 2 lengths, a neck. Time-Imln. 65-sec.	Sloter Jeversinghte Testere (fat. 116.).
inh Pony Derby. Distance 6 furlenge :— Mr. All bin Talib's Tamocz (9-5, 5 lbs.), Pulz Mr. Hammond's Durban (9-6)	carried fet, Mis- 3.
2 lbs.), Howley Mers. M. Goculdaes' and Mathradass' Four Acce (est. 8 lbs.), W. Buxley	Won by half a length; a short head; three- quarter length. Time - 1 min. in sees.
Also Ran :- Red Cro's (2-t. 13 lbs.), Acc of	H. H. the Mahamjah of Patisla's May Boy (bet. 70st), Ruir Tinkore Stipal Singh's Talcum (set. carried bet. 20bs.), Firth
Royals (6st. 10 lbs.), Arrow (6st. 2 lbs.), and Najdi (8st. 8 lbs.). Won by 11 lengths: from the dead-heatess of the control	Mr. A Watton's Ellier Homory (542 City, carried est allos), Quinn
who were If lengths in front of advance. Time.—Imin. 13] sees.	Won by three-querter length; a short head. Time2 mins an 1-5 secs.
Dealers ' New Plate. Distance 11 miles -	Pathits Cup Distance 1 mile
Mr. A. S. Comer's Union Jack (6st. 12 lbs.), Japheth Mr. A. B. Zuheir's Zuheir (8st. 12 lbs.), Ruiz Mr. Nanjec's Full House (8st. 10 lbs.), Buckley	Mr.J. It scott's Sex Ind (9et. 16lbs.), Titth. Rong Stram Singh's Roselaun (7st. 11ll s.), Lynch
Mr. R. R. S.'s Natal (8st.), Collis.	Also Ran :- Laconara (fiet, Ellist), and
Also Ran:—Garland (8st. 10 lbs), Starling (8st.), Apollo (8st. 7 lbs.), St. Leger (8st. 7 lbs.), Pevildom (8st. 7 lbs.), Pevildom (8st. 7 lbs.), Brave Boy (8st. 6 lbs.), Goldfield (8st. 6 lbs.), Legislator (8st. 6 lbs.), Cill. (8st. 4 lbs.), Bill Balley (7st. 10 lbs., carried 7st. 11 lbs.), and Banker (6st. 6 lbs., carried 7st.).	Won by three-quarters of a length; two and a quarter lengths. Time.—1 min. 67 sees. Great Oudh Han Beap. Distance Gintlengs.— Mr. Woodward's Sunspot (8st. 7lbs), Quinn, Mr. Hari Shankar's Sellin (6st 10lbs, carried
Won by 34 lengths; 4 lengths; 6 lengths Time—2mins, 27secs.	7st. 1lb.), A. Walted Mr. Holland's Bahlool, (6st. 12lbs.), W. Huxley
The Cecil Gray Plate. Distance 6 furlengs - Mr. Syed Rashid's Medallion (6st. 7 lbs.)	Mr. Dayal Singh Chachi's Old Joe (6st. 11lbs, carried 6st 13lbs.), Lyuch
Mr. A. S. Oomer's Union Jack (9st. 6 lbs.) Japheth Mr. Dixon's Bill Balley (7st. 13 lbs.), Lynch	. 2 (84t. 21bs.), and Monoko (7st. 41bs,
Mears, M. Goculdass and P. Mathradass Garland (Ost.)	Won easily by six lengths; Time.—1 min. 24 2-5 sees.
W. Huxley Mr. R. R. S.'s Natal (8st, o7 lbs.), Collis	· 4 Stewards' Cup. Distance 1 mile
•7 lbs.), Collis	Thakore Sripal Singh's Talcum (8st. 2lbs.), Firth
Also Ran:—The Knut (8st. 7 lbs.), Legis lator (8st. 7 lbs.), Contest (5st. 7 lbs.) Vanguard (8st. 7 lbs.), Mercanille (8st 3 lbs.), Royal Taj (8st. 3 lbs.), Adil (7st 13 lbs.), Salamat (7st. 13 lbs.), and	Mr. A. Watson's Silver Memory (8st. 11b.), Quinn Sirdar Jewan Singh's Menes (8st. 11ibs.),
Emerald (7st. 1 lb.).	Also Ran :- Flamen (0st. 6lbs.).

Won by a head; } length; same. Time-

Won by three-quarter lebgth; half a length. Time.—1 min. 43 sees.

Captain V. Holland's Gladiator (10st. 4 lbs.), Royal Calcutta Turi Club Plate. Distance Ruiz Mr. J. Ainsworth's Margreen (9st. 13 lbs.), Captain V. Holland's Gladiator (10st. 6 lbs.), Rose Hayhos . . H. H. the Maharaja of Patiela's Lavenir Maharajah of Patiala's Lavenir (9st. 3 lbs.), (Ost. 6 lbs.), Trahan W. Huxley A so Ran:—Drill Mistress (0st. 7 lbs.), Andoversford (8st. 12 lbs.), Flotelle (7st. 10 lbs.), Dlann (7st. 9 lbs.), Arnas (7st. 7 lbs.), and Toren (6st. 11 lbs., carried Maharajah of Patiala's Flaman (9st. 4 lbs.). Shdar Jewan Singh's Menas (8st. 5 lbs.), 7st.). Also Ran :- Sunder (Est. 3 lbs.), Ruedlsar (7st. 7 lbs.), and Bachelor's Knot (7st. Won by If lengths; a neck; 2 lengths. Time.-imin. 29, secs. 8 lbs.). Won by 12 lengths, } length. Time.-1min. Metropolitan Plate. Distance 11 miles,-154ccs. H. H. the Maharaja of Paticia's Philanernt Plate. Distance 6 furlongs.thropist (0st. 0 lbs.), Trahan Mr. R. R. S.'s Dunskey (8st.), Collis Mr. R. Fraser's Lady Lyric (7st., carried 7st. 1 lb.), McCowan Mr. P. Stewart's Santa Claus (6st. 4 lbs., --- -Sirdar Jewan Singh's Ormy (9st. 2 lbs.), carried 7st.), Lynch .. 2 H. H. the Maharaja of Scindia's Vidi (8st. Sirdars Gyan Singh and C. Singh's Ecoso 12 lbs.), Pullen . . Lawn (9st.), S. R. Singh ... Al-o Ran -Wavelet's Dupe (8st.), Madrina (7st. S lbs., carried 7st. 4 lbs.), and Lebanon (6st. 10 lbs., carried 7st. 2 lbs.). Mr. A. Symond's Late Knight (6st. 7 lbs.), F. Northmore Also Ran: —Amalgam (10st. 5 lbs.) and Glpsy King (7st. 4 lbs.). Won by 2 lengths; same distance separated the second, third and fourth. Time. -2mins. 10\secs. Won by 2 lengths : 14 length. Time .- 1min. Western India Turl Club Plate. Distance 173 secs. 5 furlongs .--Gwallor. Mr. Brigstock's Subeh Pasha (8st. 7 lbs.), Pullen rindia Cup. Distance 7 furlongs .-Major H. Narayen of Cooch Behar's Ace of H. H. the Maharajah Scindla's Dress (8st. Diamonds (7st. 1 lb.), F. Northmore ... 2 .. 1 5 lbs.) Pullin General Raja Hari Singh's Pharoah (7st. Captain V. Holland's Gladiator (8st. 2 lbs.), Mitchell 3 lbs., carried 7st. 4 lbs.), Harrison Mr. Rennell's Mubrook (7st. 10 lbs.), Pur-Mr. J. Ainsworth's Mar (8st. 1 lb.), Rose .. 3 toosingh Mr. Hamer's Boss Lee (2st. 8 lbs.), Ruiz. 4 Also Ran :- Bahlool (9st. 10 lbs.), Crusa-Also Ran:—May Boy (91bs.), Philanthro-pist (9st. 2 lbs.), Sun Umbrella (9st.), Talcum (8st. 1 lb.), Dunskey (7st. 12 lbs.), der (8st. 6 lbs., carried 8st. 8 lbs.), and Notal (8st. 4 lbs.). Won by a short head; I length; same. L'Avenir (7st. 10 ibs.), and Madrina (7st., Time.-Imin. 01cecs. carried 7st. 2 lbs.). Mathradass Goculdass Cup. Distance 1 Won by 1 length; 11 length; & length. mlic.— Time-Imin. 28 sees. Major Kushru Jang Bahadur's Amir Aswad Bhopal Cup. Distance 1 mile.— (8st. 3 lbs.), Lynch . . Mr. M. Goculdass' R. G. (8st. 9 fbs.), W. H. H. the Maharaja of Patisla's Sultan Huxley (7st. 11 lbs.), Rose Mr. M. Ghorpade's Malden Palm (7st.), J. K. Irani's Creme Do Menthe (8st. Lynch 3 lbs.. carried 8st. 7 lbs.), Ruiz .. Mr. Hamerd's Hameed (9st. 5 lbs.), A. Mr. Goculdass ' Solar Star (9st. 1 lb.), W. 8 Templeman Huxley 4.0 ... H. H. the Maharajah of Patiala's House Also Ban :-British (9st. 3 lbs.), Angler (9st. 1 lb.), and Searchlight II (7st. · Mald (Est. 11 lbs.), Trahan Also Ran :- Kestrel II (0st. 9 lbs.), Black 4 lbs.). Friar (8st. 8 lbs.), Sea Lad (8st. 6 lbs.), Hard Cash (8st.), and Atlanta (7st. 5 lbs.). Won by ! length: 4 lengths; 21 lengths. Time.-lmin. 5712203. Won by 11 lengths; 2 lengths; a neck. Gwallor Cup. Distance 12 miles .-Time.-Imin. 45secs.

Yavaraj Cup. Distance 7 furlongs .--

rigon

Mr. Hamer's Short Skirt (7st. 6 lbg.), Har-

Maharaja of Patiala's May Boy (9st. Dead

Mr. B. R. 6.'s Cyanite (8st. Gbg.),

| best 1

Olbs.), Rulz

F. Templeman

Mr. J. L. Ainsworth's Glacomi (Est. 7 lb.), Capt. J. C. Walker's Hope Deferred (11st. .. 3 Rose" ·:. 3lbs., carried 11st. 5lbs.) ... Mr. D. B. Captain's Sugar Louf (Ost, 2 lbs.), Also Ran .- Simson (11st. 3lbs.) (fell), and Rulz ... · · Lady · Stephenson · (10st.-101bs.: carried Also Ran :- Blackmaller (8st. 9 lbs.), and 10st. 13lbs.) Lord Robert (7st. 3 lie.), ·Won by three lengths; two lengths. .. Time-5 mins. 42 secs. Won by a head; half a length between second and third. Time .- 2 mins, 10 Royal Calcutta Turf Club Plate. Distance 4-5 sees. 14 miles .-The Trades ' Purse. Distance 5 forlongs .-Colonel Desraj Urs' Lord Roberts (7st. 71bs.), Melsom ... Mr. A. Sattar's Ismalia (9st. 13 lbs.). . . Mr. A. Watson's Silver Memory (9st.), Huxley Firth Yuvaraj of Mysore's Namuna (7st. 6 lbs.). Sirdar Jowan Singh's Menes (8st. 12lbs.), Purtoo Singh .. 3. . . Mr. A. R. Rangaswamy's Mercury (6st. Also Ran .-- Glenlyon (7st. 21ba.), and 13 lbs.), Melsom Monsoon (7st.21bs.). Won by one and half length; two lengths. Won by three-lengths, five lengths, Time .-Time.-1 min. 5 3-5 secs. 2 mins. 38 secs. Stewards ' Plate .-Bangalore. Messrs. M. Goculdas' and F. M. Garda's Fire Fineb (10st.), Huxley Maharajah of Mysore's Cup. Distance 11 miles .-Mr. H. Coningham's Summuran (7st. 11lbs.), Melsom Mr. A. Hamced's Hamcedla (9st. 5 lbs.). Mr. J. L. Ainsworth's Margreen (8st. 7 lbs.), Huxley Yuvaraja of Myzore's Tango III (8st. 5 lbs.), .. - 0 Purtoosingh.. Won by a length; three-quarters of a length. . . Messrs. E. C. Ramshaw and J. Stewart's Kestrell II (10st. 1 lbs.), J. Rose ... Barrackpore. Also Ran :- Mercury (8st. 8 lbs.). The Gymkhana Cup. Distance 5 furlongs .--Won by a length, same. Time-2 min. Mr. Spencer's Anzac (12st. 3lbs.), Manley. 1 22 secs. Mr. Raikut's Pagodite (12st.), Itoo Southern India Cup. Distance 1 mile .-Mr. Hannay's The Rock (7st. 3lbs.) Messrs. M. Goculdass and F. M. Garda's , Fire Finch (9st.), W. Northmore. . Also Ran :- Refund (7st, 8lbs). Won easily by three lengths; four lengths, Mr. Goculdass ' Yuan (8st. 7 lbs.), Huxley. . 2 Time.-1 min. 6 3-5 secs. Mr. J. L. Ainsworth's Glacomi (9st. 5 lbs.), The Steward's Cup. Distance Cfurlongs .-Also Ran:—Rocking Horse (6st 8 lbs.), Melton Lass (7st. 6 lbs.), Little Star (7st. 3 lbs.), and Lord Robert (7st.). Mr. Gpilford's Tallawah (9st. 10lbs.), Warke, 1 Captain Cantley's Perledale (10st.), Randall. 2 Mr. Khettry's Lady Madge (12st.), Itoo .. 3 Won by two lengths, one length between second and third. Time,—1 min. 41 secs. The Baugalore Cup. Distance 11 miles.— Also Ran :- The Witch (11st. 10lbs.). Won easily by two lengths; four lengths Mr. M. Coculdass' Yuan (7st. 12 lbs.), between second and third. Time .--1 min. 19 2-5 secs. Melsom 11

STEEPLECHASING.

Tollygunge.

Grand

The Indian

National. Distance.

3 miles.—
Air. Wilton Bartleet's Larrikin (9st. 4lbs.),
A. Scott

Mr. R. Pugh's Dynevor Park (9st. 6lbs.),
Barker

Messra. Swan and Hilliard's Footsteps
'Fearless (9st. 8lbs.); Northmore

Mr. John Peter's Dolly Dimple (11st),
Willaimson

Also Ran:—Sesto (10st. 13lbs.), Sholto (10st 1lb., carried 10st. 3lbs.), Turbulent (9st 10lbs.), Carrick (9st. 13lbs.), and Chevaller (9st. 1lb).

Won by four lengths; four lengths; five lengths. Time.—O mins. 73-5 secs.

The Governor's Cup. Distance about 1

Mr. Rae's Exchange (10st. 10 lbs.), Mr. Campbell

Campbell
Mr. Edmondson's Romantic (10st. 7 lbs.),
Dr. Taylor
Mr. Pettitt's Ladavon (9st. 7 lbs.), Mr.
Sweet

3

Alto Ran :- Endeavour (11st.), Longreach (10st. 8 lbs.), Kingspear (10st.), Bunny (9st. 12 He.), and Lill (11st. 2 He.).

Won by two and a half lengths; throc lengths ; same.

The Club Cup. Distance 5 furlongs .--

Mr. Corrie's Blackmater (10st. 10 lbs.), Mr. Tanner

Mr. White's Silver Lining (11st. Captain nestt

Mr. Pratt's Signalman (12st.), Dr. Ollford. . 3

Also Ran -- Woodpecker (10st.), and Long Reach (10st, 7 lbs.)

Won by 17, 3, 21.

Tollygunge Point to Point. Distance about 11 miles, over 7 jumps.-Captain Durham's Magple (10st. carried 10st. 12 lbs.), Owner Mr. Henderson's Chevalier (12st.), Harvey . . Col. Smith's Kingspear (10st.), Captain Deane Also Ran :-- Mystery (10st. 7 lbs.). Won by 1. 8. President's Cup. Distance 1 mile .--Mr. L'almondson's Romantic (Ost. 7 lbs.), Mr. Hare Mr. McCully's Longreach (10st. 6 Captain Deane Mr. Pratt's Signalman (12st.), Dr. Taylor. . 3 Won by 1, 4.

POINT-TO-POINT RACES.

Poona-Kirkee Hunt.

Light Weight Hunt Cop. Distance 3 miles .--Mr. A. Downton's Beauty (11st. 7 lbs.). OWNER Captain Bunt's Sandfly (11st.

Captain Malone . . Captain Studd's Cloister (11st. 7 1ba.), .. 3 Owner ..

Al-o Ran: -- Socrates (11st. 7 lbs.), What Hope (11st. 7 lbs.), Blue Bird (11st. 7 lbs.), and Black Diamond (11st. 7 lbs.).

Pony Hunt Cup. Distance 3 miles .-

Captain Munton's Thelma (11st. 7 lbs.), Owner Captain O'Donel's Mike (11st. 7 lb5.), Owner

Captain Warden's Hors De Combat (10st. 7 lbs.), Owner ..

Al-o Ran: -Treacles (10st. 7 lbs.), The Scamp (11st. 7 lbs.), Flexible (11st. 7 lbs.) The.), and Minnie (11st. 7 lbs.).

Diana Hunt Cup. Distance about 21 miles .--Catch-weights .- A race for horses and poples to be ridden by ladies.

Col. Leed's Hornpipe, Mrs. Wadia The Hon. Mr. P. Cadell's Charles, Mrs. Lord

.. 2 General Leader's Jeremiah, Mrs. Walker Also Ran :- Leister, Joan, and Prudence.

Welter Hunt Cup.' Distance about 3 miles .--

A race for horses and ponies. Mrs. Wadla's High Play (12st. 7 lbs.), Col.

Tecd Mr. G. Barker's Camel (11st. 7 lbs.), Owner. 2 General James' Fleurette (12st. 7 lbs.),

Captain James . . Also Ran :- Dawn (11st. 7 lbs.), Janitor (12st. 7 lbs.), Cock Robin (11st. 7 lbs.),

. .

and Sandy (11st. 7 lbs.). Farmers' Race. Distance 3 miles. Catchweights .- For horses and ponies .--

Col. Teed's Captain Kidd, Owner ... Col. Teed's Fidiers Green, Captain Maione. . 2 Captain Studd's Cloister, Owner .. 3

Also Ran :- Red Monk. Dagein and Nugget.

LAWN TENNIS.

Bengai Championships,-

Men's Singles .- N.S. Iyer.

Men's Doubles-I'. Boxwell and A. L. Hosie. Mixed Doubles-Miss McNaught and Carroll.

Ladies' Singles-Miss McNaught.

Western India Championships.—

Men's Singles .- Ranga Rao.

Men's Doubles-Type and Chiamulgand. Mixed Doubles .- Mr. and Mrs. England.

Punjab Championships .--

Men's Singles-Sleem beat Jacob.

Ladies' Singles-Miss Bowde rheat Mrs. Gracev.

Men's Doubles-Lowe and Thomas defeated Atkinson and Deanc.

Mixed Doubles-Miss Bowder and Ritchie beat Bibi Amrit Kuar and Green.

G. I. P. By. Championships .-

Mixed Doubles-Mr. Swinkoe and Mrs. Swinhoe, Bina.

Ladles' Doubles-Mrs. Swinker and Mrs. Scanlan, Blna. Men's Doubles-Mr. Cordell and Mr. Ogle.

Bina,

Men's Singlet-Mr. Brown, Pombay,

inth Indian Tournament	Paris figur Tarrear et en
Men's Singke-G. W. Deane, Mater.	Singles wife, Pyres, Bushing with the French was Chicarling 2.
Men's Doubles-R. P. taledinant Page and D. Mahanty.	If the Bright sunfferent Librar was distract
tila Open Tormsment	Open Har Brip. Tourrement (Ofmis)— 1. Media hingles—Me, A. K. Krita
Men's tingler Ages best bit Kildhar 6-2, 6-2, 6-3,	Alland to the marks Will and Mr. Dante
Mixed Double 1.—Mbs. Blowder and Conten- best Mrs. Gracey and Lumsden 6.—1, 12.—3.	Thenta the thanker one Emmeters and Junet.
Men's Doublet.—Maharaj Stark and Green best Coater and Thorpe 6-2, 10-2, 2-6, 0-3.	Meria Mediamette, Hairan,
Indies' Singles,-Miss Founder 1-21 Fil-d Amrit Kaur 6-2, 6-0.	

HOCKEY.

miniton Cap (Calcutta) —		.3	lya Khan Cup, (Por	5 t }·	
Calculta Rangers		L post	" A " Cor., L. D. F	•	7 grafe
Dacen Bachelom		NO.	Poona Elfer .		, # #ns/s
iga Rhan Cup (Bombay)		1	lika Tormina' (f	iomins)	
M. A. O. College, Allgath	••	2 gmls .	Cithelmi H. S.		್ಟ ರೈಕ್ಷಣಗಳು
Grant Medicals, Bombay	4.5	NO.	St. Mary 's H. S.	* *	. NO.

FOOTBALL.

indian Challenge Shield (Calculta)		Walter Leche Cop (Rangoon).—	
Noth Middlesex Breeknochshiores	Su.	Panasan Polisan	
Harris Tournament (Poons)		zampoon con to the	
Eignaliers' Depot 12th Comb. Inty. Depot	1 goal	Murray Cup, Luckhow.—	
Trivandrum Tournament.— St. Joseph's H. S. Law College	g goods	North Staffords	

CRICKET.

Quadrangular Tot	ırfiam	eni, D	omba	ŗ	
Resulted in a dindus—lst (7 wkts).	draw,	Beorg	3:		*175

Passis-Ist In., 175; 2nd in., 193 (2 wkts). . Inninga declared clored, *

GOLF.

Delhi Tournament,-Ridge Medal, J. Teasdale. Bernard Cup, C. W. C. Carson. · Dunlop Cup, C. W. C. Carson. Mohawk Cup, W. Booth-Gravely. Electic Competition, H. R. Messum. Club Prize for the best model score (80 holes), H. R. Messum. Swinton Cup, W. Booth-Gravely. Batchelor's Cup, J. W. Nelson. Waller Cup, Mrs. S. C. Tomkine. Mixed Foursomes, Mrs. Highet and Mr. B. Macpherson.

ATHLETICS.

- Y. M. C. A. Meeting, Pambay,
- Hur fred Yarls' Race.—1st Hildreth, 2nd Downer, 2nd Worseley,
- Hundred and Twenty Yards ! Hurdle Race 1st Hillieth, 2nd Present, 3rd Brody.
- Half Mile Rac !-- Ist Cummings, 2nd Valdya, Ord Fritchiey. #
- Two Randred and Twenty Yards? Bace.-
- High Jump,-1st Prescott, 2nd Windsor and Hildreth, 3rd Worseley.
- 16 Hr. Short "Patt,"-Ist O'Leary, 2nd Dawner, 3rd Hildreth.
- Long Jump.-let Hildreih, 2nd Frercott and Commings, 2rd Worreley.
- Quarter Mile Race.-1st Hildreth, 2nd Downes, and Cummines.
- One Mile Bace .- 1st Hildreth, 2nd Valdya, and Borsetti.
- Two Mile Cycle Race .- 1st Evans, 2nd O'Neill.
- All India Meeting, Bombay :-
 - 160 Yards Flat Race.—1, Hildreth (Bombay Y. Mr. C. A.); Z. Malawood (2nd N. Stalls, H'pladl); 3. Boalt, B. S. School Old Boys, Irstput. Time—10 3-5 rees..

- Unit Mila Plat Race.—1, Smith; 2, Reid (both 2nd N. Sinfia). 3, Guddard (Igatpurl). Time.—2 mins. 13 4-5 eyes.
- 100 Yarda Bombay City School Boys.—1, Ismail (Cathedral High School); 2, Palla; 3, Vaidya, (both Robert Money School). Time.—12 3-5 sect.
- 120 Yarda Hurdle Race.—1, Hildreth; 2.
 Brodie (V. M. C. A.); 3, Boult (Igatpuri),
 Time—10 secs.
- High Jump.—1, Precent (Y. M. C. A.); 2, Kalapesco (6t. Xavier's Coll.); 3, Morris (H. M. Customs). Height 5ft. 4in.
- Two-Mile Cycle Race,—1, B. J. Evans (Y. M. C. A.); 2. Jani (Bombay High School); 3. Shalke (Deccan Gym., Poona). Time—6 min. 28 secs.
- Quarter-Mile Flat Race.—1, Smith; 2, Hild-reth; 3, Powell (Rangers). Time—52
 2-5 sees. This a record for this meeting.
- Broad Jump.—1, Hildreth; 2, Ptc. Eccles (War Hospital, Poons); 3, Boult. Distance 17ft. 7 6-8 in.
- 220 Yards Flat Race.—1, Hildreth; 2, Brown (2nd N. Staffs); 3, Mainwood. Time—21 3-5 secs.
- One Mile Flat Race.—1, Reld; 2, Smith; 3. Bhat (Bombay). Time—5 mins. 6 1-6 sees.

WIRELESS TELEGRAPHY.

The annual report of the Indian Telegraph Department for 1015-16 states that the number of wireless stations in India and Burma has increased from 0 in 1010-11 to 10 in 1015-10. The number of messaces dealt with in the latter year by the nine coast stations was 83,719.

Licences to Officers—The Government of India have decided that the granting of licence ato military officers in respect of wireless telegraph apparatus used for experimental purposes shall be regulated by the following general principles: (1) When an officer conducts experiments in wireless telegraphy in his official capacity at the express of dovernment no licence is required, but only executive permission, which may be given so far as the Telegraph Department is concerned by the Director-General, Posts and Telegraphs.

(2) When an officer carries on experiments power as a private individual at his own expense, he power,

must obtain a licence. If the approval of the military authorities is required to what he proposes to do, he should obtain such approval before the Director-General, Posts and Telegraphs, is approached. The licence will then be submitted by the Director-General, Posts and Telegraphs, for the sanction of the Government of India.

(3) With reference to the above, attention is drawn to the necessity for applying for licences to own and use wireless telegraphy apparatus or installations, exprimental or otherwise. Applications for such licences will be submitted through the Chief of the Scneral Staff and will contain particulars r g unling the apparatus showing (a) system it is proposed to employ, (b) maximum range of signalling with applicant's own receiving apparatus, (c) power (current and voltage), (d) source of power.

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a transfer of these rates and u. I. To Council of Albindia Mosfem League met in Rankan kown the Asiale specifically obliges bouler need in Problemsy A relation Rooms, agentumbe a bem Bogliteren de mort, known ab famben, und gatered anifons recolutions reguillieren bir tertigen auften.

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20th-Entering level by Comment of India explaining getapp bereise etheme of delegation of firmely fowers drawn up by to amin totage rate. two mightable it geren it fint ibr eine benteft ihn Retert.

AUGUST.

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tith,- sie Berterin Robensen in Dari vrat Amerett porte imperiant special on fired of ente ettatten ufeit, mat murk, condemned mbethern problem and more concerned his higher to matters of general soliton. his bearre to matters of general welfare, especially improvement of education and merbrotter.

Rith.-Collision between Prilish troop train and pools train on G. I. P. Railway at Vermarras, near Rafebett, Dve British soldiere belt # killed, five British and two Indian officers and To Matish and one Indian mal and the injured.

18th,-Government of India in letter to all Chamlers of Commerce expers ed grave concers at frevalict siniteration of freduce lafor to England.

to the treatment of the experience the pull-time expert, explained action already officially to the file of the control of the file of the control of the file of the control of the file talen to remedy eath.

> 15th .- H. H. A. Khan published in London Tuers selected by political reform for India 1 nand by late Hr. O. K. Gokhale few days since his death and entrusted by him to Aca Than with diention to select time for publiextine. Mr. Gokkale planned seleme of pro-shelyl auto-my, by which each Province world have Gowgnor appointed from England, with Executive Council of three English and thre Indian Members and with Legislature numbriles from 75 to 160, four-fithe of whom to be elected by different constituencies and interests.

> multi-Garde of India Extraordinary anfor fudls, hel accepted Viceroy's Invitation to vi i: India to discuss political reforms with Vic. roy and Government of India, the Local tion ram nta and other public bodies.

> Het .- Pomtay University annual convocation. H. E. the Governor, as Chancellor, and Vice-Chancellor, Mr. C. H. Scialvad, both delivered addresses.

23rd.—Public meeting at Bombay Town Hall to take preliminary measures for raising memorial to memory of late Mr. Dadabboy Naoroji.

26th.-Hon, Saheb Zada Altab Ahmed Khan, newly appointed Member of India Comeil, entertained in Bombay prior to his departure

SEPTEMBER.

ment of India for public information and criti-village or town municipal council; second in ment of India for public information and criti-cism, main points bring decision by His Majesty's Government that Indentured Emigration shall Government that Indentured Emigration shall Government and third in domain of Legislative Councils, along which advance must be made can be introduced into any Colony until all the simultaneously with advances in other two. Indian emigrants already there shave been sufficiently decided that released from existing indentures.

. 5th Imperial Legislative Council, Simia, posible.

H. E. the Viceroy delivered what is regarded as longest speech ever made by a Viceroy on similar occasion and made important pronounce similar occasion and made important pronounce ment reparding constitutional reform in India Simila, for purpose of organising work by women ment reparding constitutional reform in India Simila, for purpose of organising work by women eaying that His Majesty's Government and in connection with war.

112.—Report of London Inter-Allied Emigra-Government of India had agreed upon policy tion Conference on emigration from India according to which three roads lead to the goal, fullished with covering resolutions by Govern-Pitts was in domain of local self-government, fullished with covering resolutions and the covering resolutions of the covering resolutions of the covering resolutions are considered with the covering resolutions.

DECEMBER.

Srd.—Bombay Legislative Council., Dis- His Excellency to provide cub where all concusion on Second Rending of Hon. V. J. Patel's manufiles may meet on lines of Ranciagh an Bill to provide for extension of primary education in Municipal Districts other than Bombay Citya

4th-Bombay Legislative Council. Hon. Mr. Patel's Bill further discussed and passed. Nonofficial resolutions.

Annual Quadrangular Cricket Tournament opened in Bombay.

5th .- Bombay Cricket Tournament, Hindus win against Mohomedans by five wickets.

6th .- General Marshall (appointed to succeed Str Stanley Maudo in Mesopotanda) reported successful operations against Turks on Jebal Hamrin Ridge, as a result of which British occupied Bukaltutan Pass, through which road from Upper Diala region proceeds north.

7th.-Bombay Legislative Council. Nouofficial resolutions.

. 8th .- Bombay Cricket Tournament. Parals niu against Presidency by seven wickets.

Oth .- Governor of Bombay opened new Willingdon Sports Clubs opposite Bombay Race Course, organisation of which was initiated by ference and All-India Moslom League, Calcutta.

Hurlingham.

10th.—Governor of Bombay opened Indian Agricultural Conference at Poona.

12th.—Bombay Cricket Tournament resulte in draw between Hindus and Parsis, Hindus i first innings making 252 and Parsis in first innin 175 while Hindus declared their secon innings closed at 175 after fall of 7 wickets an Parsis in their second innings scored 103 fo two wickets before stumps were drawn,

"Our Day" celebrated with great succes throughout India, its object being to rais money for various war funds.

24th .- Viceroy and Secretary of State reacher Bombay, this being Lord Chelmsford's first sist to city since his arrival in India Viceregal visit was private except as regard reception with bir. Mantagu of addresses from the company of the company various public bodies on subject of politica reform.

26th .- National Congress opened in Calcutta Mrs. Annie Bessant presiding.

30th .- Annual Sessions of Industrial Con-

INTEREST TABLE.

From 5 to 12 per cent. on Rupces 100.

Calculated for 1 Year, 1 Month (Calendar), 1 Week, and 1 Day (305 Days to Year). the Decimal Fraction of a Pie for the Day being shown for the Day.

Per cent,	1 Day.	1 Week.	1 Month.	a 1 l'ear.
•	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. a. p.
5 0	0 0 2.030	0 1 10	0 8 0	.000
7 8	0 0 3 682	0 2 1	0 9 4 0 10 8	700 800
0	0 0 4.734	0 2 9	0 12 0	0 0 0
19 11	0 0 5*260	0 3 0	0 13 4	10 0 0 11 0 0
12	. 0 0 6.312	0 3 8	100	13 0 0

Table of Exchange.

Table of Exchange, No. 1—Rupees into Pounds Sterling.

	Fo	r values of Ruz	ees from 1s. 3	ld. to 1s. 317d.		
Rupees.	1s. 8½d.	1e. 8 _{1d} d.	18. 31d. c	1s. 3ftd.	1s. 31d.	1s. 3}2d.
1 5 5 10 20 30 40 50 60 70 80 90 100 250 400 500 750	S s. d. 0 1 31 0 3 105 0 0 51 1 15 10 1 18 0 2 11 8 3 4 7 3 17 6 4 10 5 5 3 4 5 16 3 6 9 2 16 2 11 25 16 8 32 5 16 8 32 5 16 8 34 5 16 8 6 9 2 16 2 11 18 5 16 8 18 5	£ 8. d. 0 1 32 0 3 104 0 6 5 10 0 12 114 1 15 114 1 18 104 2 11 104 3 17 95 4 10 94 5 3 9 5 16 84 6 9 84 10 4 29 25 18 0 32 8 54 48 12 74 64 16 105	£ s. d. 0 1 31 0 3 102 0 0 6 0 13 01 1 6 01 1 19 01 2 12 1 3 18 11 4 11 12 5 17 21 6 10 22 16 5 64 20 0 10 32 11 01 48 10 62 66 2 1	2 5. d. 0 1 31 0 3 11 0 6 61 0 13 07 1 6 12 1 10 21 1 2 12 31 2 12 31 3 18 51 4 11 6 5 4 7 6 10 81 10 6 92 26 2 11 32 13 72 49 0 5 4 49 0 5 4 65 7 81	£ s. d C 1 37 O 8 111 O 6 65 O 13 41 1 6 3 1 16 3 1 12 0 3 5 71 3 18 0 4 11 101 5 5 0 5 18 11 C 11 3 16 8 11 C 11 3 16 8 12 C 12 0 S 2 10 3 4 9 4 4 4 4 65 12 0	£ s. d. 0 1 311 0 0 3 111 0 0 5 2 1 10 8 1 1 10 8 1 1 10 21 3 5 10 1 2 12 1 5 5 7 1 1 10 9 5 1 10 9 5 2 1 8 1 8 1 2 8 7 1 1 3 2 1 8 1 8 1 4 9 8 8 1 6 5 17
	F	or values of Ru		Id. to 10. 413d.		
Rupees.	1s, 3ld.	14. 315d.	1s. 331d.	1s. 4d.	15. 43 ₂ d.	15. 47cd.
1 3 5 10 20 30 40 50 60 70 80 90 100 250 400 750 500 750	1	£ s. d. 0 1 88 0 3 113 0 6 74 0 13 34 1 0 6 64 1 19 10 2 13 14 3 19 84 4 12 114 4 12 114 5 6 3 5 19 61 2 61 1 0 2 61 1 1 8 33 4 0 4 40 10 1 6 8 1 For values of Re	£ 8. d. 0 1 32 0 3 112 0 6 74 0 13 34 1 19 11 2 13 27 1 2 13 27 2 13 19 10 4 13 15 5 6 64 3 19 10 4 13 15 5 6 12 3 16 12 3 26 12 3 38 5 44 49 18 03 16 10 82 100es from 1s.	06 13 4	£ s. d. 0 1 4 0 4 0 0 6 8 0 13 41 1 0 8 11 1 0 8 12 1 1 0 8 14 1 1 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	£ s. d. 0 1 4 0 4 0 8 4 0 1 8 4 1 0 1 8 4 1 0 1 8 4 1 0 1 8 4 1 0 1 8 4 1 1 1 1 1 1 1 1 1 0 1 1 1 7 1 2 1 1 1 1 5 3 1 1 1 1 3 1 1 1 1 5 7 1 1 1 1 6 1 8 6 6 1 8 6 6 1 8 6 6 1 8 6
Rupees.	1s. 43ad.	1s. 4¦d.	18. 45 d.	18. 4 d.	18. 47gd.	15. 4ld.
1 3 5 10 20 40 40 60 70 80 90 100 250 400 400 400 750	£ €s. d. 0 1 4 0 4 01 0 6 81 0 13 41 1 6 93 2 13 7 2 13 7 4 0 56 6 1 81 10 15 31 20 10 5 31 20 10 5 5 5 10 67 1 13	50 7 91	£ s. d. 0 1 4 0 6 0 5 1 6 11 2 0 14 2 13 102 3 13 102 4 0 05 4 1 25 6 1 2 6 1 2 10 16 16 7 20 18 0 33 13 2 50 9 9 67. 0 41	£ 8 d. 0 1 4 0 4 0 8 0 13 5 1 6 11 2 0 5 2 13 11 4 14 5 6 7 11 6 1 4 10 16 17 24 26 10 7 33 14 5 50 11 8 67 8 11	\$\frac{\pi}{0}\$ s. d. 4 0 4 0\tilde{0}\$ 0 13 0 1 7 0\tilde{0}\$ 2 14 0\tilde{2}\$ 2 14 0\tilde{2}\$ 4 1 1 4 14 7 15 0 15 10 17 10 12 7 0 5 15 15 15 15 17 17 17 17 17 17 17 17 17 17 17 17 17	\$ 6. d. 44 07 06 94 07 12 07 12 14 25 14 28 4 14 14 15 15 15 15 15 16 18 6 17 17 16 18 6 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18

Table of Exchange, No. 2-Pounds Sterling into Rupees.

For values of Ruples from 1s. 31d. to 1s. 313d.

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For values of Rupees from 1s. 3ld. to 1c 42d.

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For values of Rupees from 1s. 4 d. to 1s. 41d.

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Indian Stamp Duties.

Rs. a.	€ R\$-	
Acknowledgment of Debt ex. Rs. 20 0 1	In any other case 5	
	Tancellation 5	
	Certificate or other Document relating to	
(a) If relating to the sale of a bill of exchange 0 2	Duales	
	Tarty	
ment security, or share in an in-	Theque	
corporated company or other body	Composition—Deed 10	
of Rs. 10, a. 1 for every Rs. 10,000	Conreyance, not being a Transfer—	
or part.	Not exceeding Rs. 50 0	
(c) If not otherwise provided for 0 8	Exceeding Rs. 50, not exceeding	
Appointment in execution of a power 15 0	Rs. 100 1	
Articles of Association of Company 25 0 1	For every Rs. 100 in excess of Rs. 100	
Articles of Clerkship	up to 110. 1,000	•
Award, any decision in writing by an Arbitrator, other than by an Order of	For every Rs. 500, or part thereof, in excess of Rs. 1,000	ś
Arbitrator, other than by an Order of the Court. Where the value does not exceed Rs. 1,000, same duty as a Bond.	Copy or Extract—If the original was not chargeable with duty, or if duty with	
In any other case 5 0	which it was chargeable does not	۸
Bill of Exchange or Promissory Note	exceed 1 Rupes	•
payable on demand 0 1	In any other case	,
Where payable otherwise than on demand	Counterpart or Duplicate-If the duty	
but not more than one year after date or sight—Not exc. Rs. 200, a. 3; exc. Rs. 200, not exc. Rs. 400, a. 6; exc. Rs. 400,	with which the original instrument is chargeable does not exceed one rupee	
200, not exc. Rs. 400, a. 6; exc. Rs. 400,	The same duty as is payable on the original. In any other case	1
not exc. Rs. 600, a. 9; exc. Rs. 600, not exc. Rs. 800, a. 12; exc. Rs. 800, not exc.	originals and any other topo	۰
Rs. 1,000, a. 15; exc. Hs. 1,000, not exc. Rs. 1,200, R. 1 s. 2; exc. Rs. 1,200, not	Delivery Order (C
exc. Rs. 1,600, R. 1 a. 8; exc. Rs. 1,600,	Entry in any High Court of an Advocate	
2,500, not exc. Rs. 5,000, Rs. 4 a, 8; exc.	or Vakil	
cxc. Hs. 800, h. 12; exc. Hs. 800, not exc. Rs. 1,000, a. 15; exc. Rs. 1,000, not exc. Rs. 1,200, R. 1 a. 2; exc. Rs. 1,200, not exc. Rs. 1,600, B. 1 a. 8; exc. Rs. 1,600, not exc. Rs. 2,500, Rs. 2, a. 4; exc. Rs. 2,500, not exc. Rs. 5,000, Rs. 4 a. 8; exc. Rs. 5,000, not exc. Rs. 7,500, Rs. 6 a. 12; exc. Rs. 2,500 pot exc. Rs. 1000, Rs. 6 a. 12; exc. Rs. 2,500 pot exc. Rs. 1000, Rs. 6 a. 12; exc. Rs. 2,500 pot exc. Rs. 1000, Rs. 6 a. 12; exc. Rs. 2,500 pot exc. Rs. 1000, Rs. 6 a. 12; exc. Rs. 2,500 pot exc. Rs. 1000, Rs. 6 a. 12; exc. Rs. 2,500 pot exc. Rs. 1000, Rs. 6 a. 12; exc. R	In the case of an Attorney	H
exc. Rs. 7,500, not exc. Rs. 10,000. Rs. 9; exc. Rs. 10,000, not exc. Rs. 15,000, Rs.	Instrument—Apprenticeship Divorce	
exc. Rs. 10,000, not exc. Rs. 15,000, Rs. 18 a. 8; exc. Rs. 15,000, not exc. Rs. 20,000, Rs. 18; exc. Rs. 20,000, not exc. Rs. 25,000, Rs. 22 a. 8; exc. Rs. 25,000, not exc. Rs. 30,000, Rs. 27; and for every	Other than Will, recording an adoption	
Rs. 25,000, Rs. 22 a. 8; exc. Rs. 25,000,	or conferring or purporting to confer Authority to adopt 1	11
not exc. Rs. 80,000, Rs. 27; and for every add, Rs. 10,000, or part thereof, in excess	Francisco Control of the Control of	
of Rs. 30,000, Rs. 9.	Lease—Where rent is fixed and no pre- mium is paid, for less than I year, same	
Where payable at more than one year	duty as Bond for whole amount; not more than 3 years, same as Bond for	
after date or sight, same duty as a Bond. Rs. a.	average annual rent reserved; over 3	
Bill of Lading	years, same as Conveyance for consideration equal to arrount or value of	
Bond (not otherwise provided for)-	the average annual rent reserved; for	
37-1 71- 10	indefinite term, same as Conveyance for a consideration equal to the amount	
Exc. Rs. 10	or value of the average annual rent which would be paid or delivered for	
Exc. Rs. 50, but not exc. Rs. 100 0 8	the first ten years if the lease continued	
Up to Rs. 1,000, every Rs. 100 0 8	so long; in perpetuity, same as Conve- yance for consideration equal to one-	
For every Rs. 500 or part, beyond	fifth of rents paid in respect of first 50 years. Where there is premium	
Rs. 1,000 2 8	and no rent, same as Conveyance for	
Eond, Administration, Customs, Security or Mortgage Deed—For amount not	amount of premium; premium with	
exceeding Es. 1,000, same duty as a	of premium, and same duty as Lease	
Bond.	without premium.	

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Indian Stamp Dulies.	• •
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Foreign Moneys, FOREIGN MONEYS, AND THEIR ENGLISH EQUIVALENTS.

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TULL FIGHANGE VALUES, 1	£ r, €.
America-(United States) Doot	and manufactions and but the tall the and
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riotta (amaca) o 1 o	Alactic II II II II II II II II II II II II II
ECLIPSES 1	N 1918.
	h. 13.
Of the SUN, Two; of the Moon, One.	
I. June 8-9. Total Eclipse of the Sun. Path of Total Eclipse passes over Borodina Idea Chehalis, Denver and the N.W. of the Bahamas. Partial Eclipse visible in the Arctle regions, the N.E. of China and Siberia, in Japan, the Pacific, N. and Central America, the extreme N.W. of S. America and the Western Market 1.	
Path of Total Eclipso passes over Borodina	" leaves "11 10 "
Robarnas Partial Felinse visible in the Arctic	III. December 3. Annular Eclipse of the
regions, the N.E. of China and Siberia, in Japan.	III. December 3. Annular Eclipse of the Sun. The line of Annular Eclipse passes over the E. of the Partile, Samisco de Callo Buene Ayres the S. Atlantic to Angola. Partial Eclips visible in the Fastern Partile, S. Americ (except the northern part) the S. Atlantic an Africa. S. and W. of a line from Sterra Leon through Sokoto and Beira.
the Pacific, N. and Central America, the	the E. of the Pacific, Samted to Cities Buche
extreme N.W. of S. America and the Western	within in the Eastern Pacific, 8, Americ
Medimina	(except the northern part) the S. Atlantic an
d. h. m. Long. Lat.	Africa, S. and W. of a line from Sterra Leon
Eclipse begins .8 7 20 p.m. in 150° E 10° N	through Sokoto and Beira.
Centrel Eclipse	1
begins 8 32 ,, . 100° E 26° N	
Central Eclipse	Eclipse begins . 0 21 p.m. in 100° W 6°;
ends 11 43 75° W 25° X	Central Eclipse
Central Eclipso	begins 1 29 ., ., 119° W 11° 5
ends 9 0 46 a.m. ,, 95° W 16° X	Central Eclipse
d. h. m. h. m.	ends 5 15 " 15 E 15
At Montreal begins .8 5 27 p.m., ends 7 9p.m.	Central Eclipse
(Easter Time.)	onds 6 22 4 W 10° 5
	h. m.
II. June 2i. Partial Eclipse of the Moon. Visible in N. and S. America, the Pacific and	
Australia.	At Cape Town begins African At Johannesburg

Wild Animals and Snakes.

The number of p reons killed by wild animals mous snakes were destroyed in the Rainagiri la British India in 1016 was 1,023. The num-district, where deaths from snake-bite are more ber killed in the previous year was 1,702. As numerous than anywhere else in the Presidency. In 1914 the highest total of deaths in any one Sir Lander Brunton's lancets are said to have province (684) is reported from Biliar and Otiers, where tigers alone killed 376 persons. In the three districts of Angul, Hazaribagh and furnished in these reports is not sufficient for a Singlishium there were 252 deaths from tigers definite verdict on the efficacy of the instrument. and the off r of special rewards for man-caters in part of three districts is said to have had no effect. Altourther 783 persons were destroyed by tigers in British India, a total which compares unfavourably with the corresponding figure of 616 for 1014. In the United Provinces one man-cating tiger in the Ainora district killed 10 persons out of the provincial total of 20; and in the Punjab two deaths are reported which are the first caused by tigers in that province for BOYON Frame.

The total number of deaths from anakebite among human beings rove from 22,000 in 1914 to 25,385 in 1915. An increase is noticeable in all provinces except Madras and the North-West Province. As usual the causalities were most numerous in Bihar and Orista (6,705), the United Provinces (6,020) and Resemble (7,005). and Bengal (4,702). The deaths reported from the Punjab under this head amount to 1,500, which is the highest figure yet recorded for that is subject, and the accuracy of the returns them-province. Special measures organised in the districts of Onjranwala and Sinikot resulted in Government of India have therefore decided the destruction of nearly 10,000 smakes. In that the submission of these returns should be the Bombay Presidency nearly \$0,000 veno-discontinued.

effected a fair number of cures in cases in which they were used but on the whole the information definite verdict on the efficacy of the instrument.

The number of wild animals destroyed during the year under review was 25,030 including 1,582 tigers, 0,623 leopards, 2,776 bears and 2,101 wolves. A sum of Rs. 1,68,400 was paid in rewards. The total number of snakes destroyed was 1,88,603 as compared with 1,18,816 in 1014. Rs. 18,214 were disbursed altogether in rewards for the destruction of snakes.

The number of fresh licenses issued under the Indian Arms Act, 1878, in forms XVI, XVII and XVIII was 23,123 as compared with 23,016 in 1914. The total number of licenses in force in the year under roylow was 175,890 against 176,770 in the preceding year.

The compliation of the returns showing the number of cattle destroyed by wild animals and snakes has involved in the past an amount of labour disproportionate to the interest of the

TIDAL CONSTANTS.

The approximate standard time of High Water may be found by adding to, or subtracting from, the time of High Water at London Bridge, given in the calendar, the corrections given as hylow:—

						H.	M.	1						и,	.M.
Gibralter				••	zub.	0	32	Rangoon R	iver	Entran	90		,add	1	35
Malta					add	1	34	Penang		••			sub.	1	39
Karachi					sub.	2	33	Singapore	.,	:•		• •		3	25
Bombay		••			**	1	44	Hongkong					92	4	27
Gos					(1)	,2	44	Shanghal		4.4	**		22	0	34
Point de O	allo				add	0	12	Yokohama	••	••	• •	• •	add	3	G
Madras	:.		••		sub.	5	6	Valparaiso	• •				suò,	4	40
Calcutta					aub,	0	19	Buenos Ayr	25	••		••	add	4	0
Rangoon T		••	***		add	2	41	Monte Vide	0	••	••	• •	pt	0	32

'me many years lo lian time was le a siste of 1 year not over the fitteresting is that and i was contained. What was called Madrae or the former, the difference between them and living time was kept on all the railways, and i stan lard time was reasonable from lide whereas not raine expects that an hour lime, which was not based on any community whereas not raile fitter it will error earlief time, which was not based on any community hour influencement are of Katadinard Questa, scientific principle and was disputed from the 1 life this measurement is thereof to be smalled. standard of all other contribut. It was with then that of keeping two did cent there is the a view to reaching this confudes that the thefine system of relieves and references to Covernment of today took the matter up in the region of therefore, so put in all the a view to receiving this continuous must the imput expert of replaced and belonging the Continuous, it is not not proposed to the Local Covernments, it railings and telegraph checks to the local Delice, a long letter which reviewed the situation and made a hour faster than the represent a time of successions for the future. The executial points which the transmission and made a hour faster than the other properties. suggestions for the future. The countrie points the the letter are indicated below:

"In India we have already a stantant time, a which is very generally, though by no means universally, recognised. It is the Madras focal time, which is kept on all railway and telegraph lines throughout india and which is 5h. 21m. 10s. in advance of Greenwich. Similarly, Rangoon local time is used upon the railways and telegraphs of Burma, and is Gh. 24m. 47s. ahead of Greenwich but neither of these standards bears a simple and carily remembered

relation to Greenwich time.

"The Government of India have reveral times been addressed by Scientific Societies, both in India and in England, and urged to fail into line with the rest of the civilied world. And now the Boyal Society has once more returned to the attack. The Commuttee of that receity which advices the Government of India upon matters connected with its observatories, writes - the Committee think that a change from Madras time to that corresponding to a longitude exactly 54 hours east of Greenwich would be an improvement upon the existing arrangements; but that for international scientific purposes the hourly zone system, making the time 5 hours in advance of Greenwich in the west, and 6 hours in advance

in the cast of India, would be preferable."

Now it India were connected with Europhy a continuous teries of civilised nations with their continuous railway systems all of which had adopted the European hour cone system, it would a be imperative upon India to conform and to adopt the second suggestion. But as she is not, and ns she is as much isolated by uncivilised states as Cape Colony is by the ocean, it is open to her to follow the example of that and some other similarly situated colonies and to adopt

the first suggestion.

"It is believed that this will be the better solution. There are obvious objections to drawing an ambitrary line right across the richest and most populous portions of India, and so as to birect oil the main tires of communication, and keeping times differing by an hour on opposite sides of that line. India has become accustomed to a uniform standard in the Madras time of the railways; and the substitution for it of a double standard would appear to be a retrograde etep; while it would, in all in a side resolution, by which the Municipality brown to be a retrograde etep; while it would, in all in a side resolution, by which the Municipal et probability, be strongly opposed by the railway were put at Bombay time which is intressed to be a sufficient with the railway and the railway and telegraphed the railway and telegraphed to be a sufficient with the railway and telegraphed to be a sufficient to be a suffi followed by all Luropeans and Indians alike; and it is certain that the double standard would puzzle the latter grantly; while by emphasising the fact that railway differed from local time, it might jeetpone or even altogether prevent the acceptance of the former instead of the latter by acceptance of the former instead of the latter by scople generally over a large past of India. The one great advantage which the second

and the difference towers that data in 1859 time at the places most and before world in approximately as follows, the forces represent ing tomotes, and I', and I', meaning that he standard tron is to stance of or behind tra-time respectively.—Introduct 51 S. Schlama S. S. Cobutta 24 S. Ababahad 2 S. Hadras S. Labore 53 F. Couley 7.5 F. Pediswar 44 F. Karacht 62 F. Quetta c2 F.

Its frames of they and furbanted?" and 55 runnies tenind foral firm at 31 milain and liarrows, tespectively; and since the railed system of therma is not connected with that India, and streaty keeps a time of its get namely, Bangoon focal time, it is not anguery that Indian htandard Time should be adopted In Jurms It is proposed, however, the in-stead of using harmorn blandard. Time as a posent, which is to 2 m. 47s, in advanced Orecowich, a Juropa Standard Time abouted. itt bna zyawilat mentral out ha no katquis anopted on an the naturals raiways and so, fraply, which would be one hour in action of Indian Standard Time, or 6j hours alord Greenwich time, and would correspond with 77 Mr. longitude. The chance would brit Burna time into simple relation, both with Tarrogram and with Interest time. European and with Indian time, and were canonic other thines) simplify telegraphic gonunication with other countries.

"stan-lard time will thus have been fixed for ri ways and telegraphs for the whole of the in li-Empire. Its general adoption for all purper while eminently advicable, is a matter at, must be left to the local community in each case,

It is difficult to recall, without a pince, benddeement, the reception of this piece by various local belies. To read now the ity that were entertained if Standard Time t adorted is a study in the rowibilities of Lun error. The Government scheme left His adopt it. Calcutta decided to retain its it local time, and to-day Calcutta time is twenty-four minutes in advance of Stand Time. In Lemtay the first reception of proposal was hostile; but on reconstituation, Chamber of Commerce decided in favour s and so did the Municipality. Subsequently opposing element in the Municipality broad minutes behind Standard Time. On the January 1906 all the railway and teleg-clocks in India were put at Indian Stan. Time of a Burma the Burma Standard became universal. Calcutta retains its for the land of th (alcutta time; but in Rombay local timeretained only in the clocks which are maintained by the Municipality and in the State of some orthodox Hindus. Elsewhere State

The Calendars.

of the Christian Fra; the year is Lunies far.

Airli Calentar will be found at the beginning. The Faell year was derived from a combinated this book. Delow are given details of the flow of the Helira and bannat years by the other Calentar in we be like. The Language of the Figure arranged A.D. 25%. The Calentar form to the Helira, but the fact of its being dates from the Creation, which is fixed as folar mode it looks being cach year.

The Savard era dates from 57 m.c., and is the Calentar form formal or the Helira, but the fact of its being dates from the Creation, which is fixed as folar mode it looks cach year.

The Savard era dates from 57 m.c., and is

The Saurest era dates from 57 p.c., and la Lunissolar. The months are divided into two The Modernielus, or era of the Helitz, forthichts—sull, or bright, and bull, or dark, dates from the Cay after Mahomet's flight Each forthight contains 15 tithis, which furnish more Merch, which experted on the night of the dates of the civil days given in our July 15, 622 g.b. The mentils are Lunar. calendars.

PUBLIC HOLIDAYS IN 1918.										
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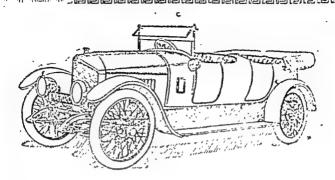
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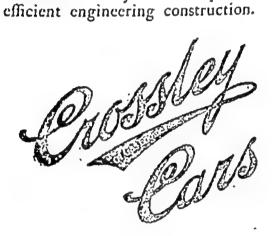
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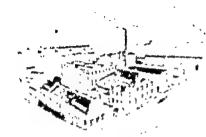
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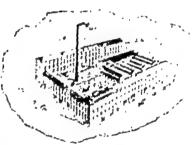
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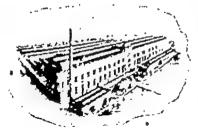
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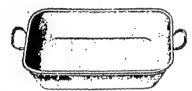
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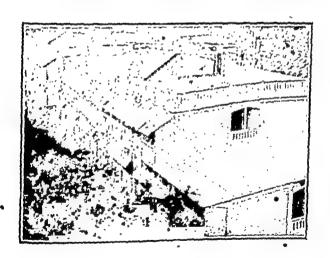
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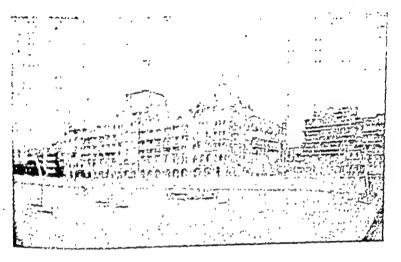


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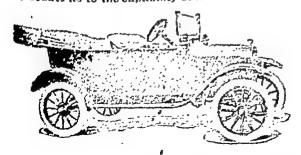
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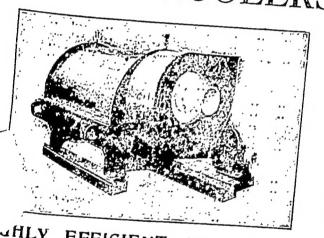
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